

# SEOHAN ANTAMIN CO., LTD TEST REPORT

#### **SCOPE OF WORK**

NFPA 285 TESTING ON EXTERIOR NON-LOADING BEARING WALL ASSEMBLY CONTAINING SEOHAN ANTAMIN ALFA-FR 8-MM NON-COMBUSTIBLE PANELS

#### REPORT NUMBER

G105484501SAT-003 R0

#### **TEST DATE**

08/06/24

#### **ISSUE DATE**

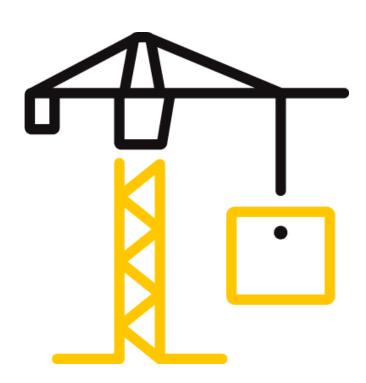
08/15/24

#### **PAGES**

44

#### **DOCUMENT CONTROL NUMBER**

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## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

Report No.: G105484501SAT-003 R0

Date: 08/15/24

#### **REPORT ISSUED TO**

SEOHAN ANTAMIN CO., LTD 165B-6L Namdong Ind. Complex 741-8 Gojan-Dong Namdong-Gu, Inchon KOREA

#### **SECTION 1**

#### **SCOPE**

Intertek Testing Services NA, Inc. dba Intertek Building & Construction (B&C) was contracted by Seohan Antamin Co., Ltd, 165B-6L Namdong Ind., Complex 741-8 Gojan-Dong, Namdong-Gu, Inchon, Korea to perform testing in accordance with **NFPA 285**, *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components* on their 8 mm Alfa-FR, Non-Combustible panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Elmendorf, Texas.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

**REVIEWED BY:** 

For INTERTEK B&C:

Abel de Hoyos

Manager – Project

Engineering – Fire

TITLE: Resistance

SIGNATURE: 08/12/24

TITLE: Senior Project Engineer

Mike Dey

DATE: 08/13/24



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#### **SECTION 2**

#### SUMMARY OF TEST RESULTS

The Seohan Antamin Co., Ltd, assembly with 8mm Non-Combustible panels **met** the requirements set forth by NFPA 285-23

#### **SECTION 3**

#### **TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

**NFPA 285-2023**, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

#### **SECTION 4**

#### **MATERIAL SOURCE/INSTALLATION**

The panel samples were received by the test facility on 05/13/24 and assigned Intertek Sample ID SAT2405131353-001. The weather proofing products arrived on 03/01/24 and assigned Intertek Sample ID SAT2403011018-001 through -003 and the gasket material arrived on 07/24/24 and assigned Intertek Sample ID SAT2407241641-001. The J-channels arrived on 07/29/24 and assigned Intertek Sample ID SAT2407151007-001.

The wall assembly was constructed by Intertek personnel under the supervision of Chris Shin of Eastern Glass and Aluminum (EGA).

#### **SECTION 5**

#### **EQUIPMENT**

ASSET #	DESCRIPTION	CAL DUE DATE
99LE006	DAQ	10/12/24
10319133	Thermo Hygrometer	12/12/24
170199534	Stopwatch	04/17/25

#### **SECTION 6**

## **LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Jasmine Anguiano	Intertek B&C
Cooper Adams	Intertek B&C
Klarissa Gonzalez	Intertek B&C
Abel de Hoyos	Intertek B&C



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#### **SECTION 7**

#### **TEST PROCEDURE**

The wall assembly was instrumented with thermocouples (TCs) in accordance with Figures 6.1(a) and 6.1(b); Detail H, of NFPA 285-2023 test method. 18 GA, Type K TCs were used in the burn room and 24 GA, Type K were used on the exterior façade and air space. The window burner was positioned in the center of the opening and 4.5-in. of the exterior face of the wall assembly. Testing was performed on 08/06/2024 in accordance with NFPA 285-2023 test method. The ambient conditions were 87.8°F and 67.6% relative humidity. Video recording, digital photographs, visual observations, and data collection were performed prior, during and after testing was completed. Temperature data was recorded every 15 seconds. The test was initiated at 09:36 am with the burners on for 30 minutes. All observations are recorded in the table located in Section 8. The apparatus is under calibrated conditions when the time average temperatures and the time average heat flux readings obtained for calibration wall match the requirements of Table 1.1.11 of NFPA 285-2023. Calibration data for the test furnace which was conducted on 04/07/23 is displayed below.

Calibration Date:	04/07/2023
Window Burner Distance from Wall:	4.5 in.

**Table 1** – Average Burner Output and Heat Flux Information

	Gas Flo	ow Values	Heat Flux Locations					
TIME INTERVAL (MIN:SEC)	ROOM BURNER (SCFM)	WINDOW BURNER (SCFM)	2 FT FLUX (W/cm²)	3 FT FLUX (W/cm²)	4 FT FLUX (W/cm²)			
		. ,	1		1			
0:00-5:00	16.5	0	1	1.2	1			
5:00-10:00	16.5	5.6	1.1	2.4	1.2			
10:00-15:00	16.5	6.3	2.3	3.1	1.6			
15:00-20:00	17.2	7.2	3.5	3.8	2			
20:00-25:00	17.1	7.9	4.1	4.4	2.4			
25:00-30:00	17.7	8.2	4.6	4.8	2.7			



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**Table 2** – Average Time Temperature Values

		Thermocouple Locations										
TIME INTERVAL	BURN ROOM	INT. WALL	1FT	1FT 2FT		4FT	5FT	6FT				
(MIN:SEC)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)				
0:00-5:00	1075	1118	593	796	708	610	525	485				
5:00-10:00	1281	1278	837	961	1001	945	847	773				
10:00-15:00	1357	1320	940	1010	1044	990	879	798				
15:00-20:00	1493	1434	1059	1078	1152	1140	1016	924				
20:00-25:00	1535	1488	1150	1171	1241	1160	1000	897				
25:00-30:00	1570	1581	1168	1224	1293	1283	1122	1022				

#### **SECTION 8**

#### **TEST SPECIMEN DESCRIPTION**

Interior Cladding – 5/8-in. Type X gypsum

**Framing** – Framing consisted of 3-5/8-in.  $\times$  18 ft.  $\times$  20 GA steel studs fastened to 14-ft  $\times$  3-5/8-in.  $\times$  20 GA steel track at the top and the bottom of the assembly using #6 1/2-in. long self-drilling screws per stud flange. 18-ft  $\times$  3-5/8-in, 20 GA steel studs were placed vertically along the full height and space 16 in. oc.

**Exterior Cladding** – 5/8-in. DensGlass Exterior Sheathing installed horizontally and secured with 1-1/4-in. long self tapping screws spaced 8-in and 12-in. oc (perimeter and field)

**Weather Barrier** – Pecora Corporation ProPerm VP was applied with a roller to a wet thickness of 10-16 mils (7-12 DFT).

**Z-Girts** – 2-in high with 3-in. legs, secured directly over the weatherproofing and placed vertically on the wall.

**J-Channel** – 2-in deep channels used at the perimeter of the window and placed horizontally at panel intersections.

**Insulation** — 2-in. thick Rockwool® Roxul Cavityrock® attached vertically, and friction fitted between z-girts and J-channel

**Panels** – 8 mm thick Seohan Antamin Co., Ltd, Alfa-FR non-combustible panels. Refer to assembly drawings in Section 14. The assembly incorporated a vertical seam 6-in. from vertical centerline.



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**Window Flashing** - 0.04-in. thick aluminum flashing with a 2-in. lip on the interior face and extending flush to the exterior finish. Secured with 1/4-in. self-tapping screws at 6-in oc.

# **SECTION 9**

#### **TEST RESULTS**

TIME	OBSERVATIONS
(Min: Sec)	
Pre-Test	All thermocouples reading correctly
00:00	Test start at 09:36 am
00:23	Smoke coming from window
01:32	Flame tips out of window
01:56	Flashing header sagging
02:12	Smoke exiting right side perimeter as viewed
05:00	Window burner lit
05:34	Popping noises from panels
07:50	Pieces of flashing falling off
13:52	Smoke coming out from left joint as viewed
15:43	Flame on right side of window
16:16	Flame on left side of window
17:02	Warping panels on left side
26:07	Smoke coming out from middle joint above window
27:58	Outer skin on panels flaking off
30:00	End of test, burners off

#### **SECOND FLOOR OBSERVATIONS**

TIME	OBSERVATIONS
(Min: Sec)	
00:00	Test start at 09:36 am
02:00	Light smoke coming from bottom perimeter
05:00	Window burner lit
06:00	Light smoke continues. Room visibility at 100%
11:00	Smoke subsided. Room visibility at 100%
15:00	No change
22:00	Light smoke coming from lower center wall
27:00	Light smoke continues. Room visibility at 100%
30:00	End of test



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#### **SECTION 10**

#### **CONCLUSION**

Test Requirements	Test Results	PASS/FAIL
Flames did not reach 10 ft. above the window opening header	Flames did not reach 10 ft above the window opening header	PASS
Flames did not reach a lateral distance of 5 ft from the vertical centerline	Flames did not reach a lateral distance of 5 ft from the vertical centerline	PASS
Flames did not propagate beyond the limits of the first story test room	Flames did not propagate beyond the limits of the first story test room	PASS
No visible flaming in the second story test room	No visible flaming in the second story test room	PASS
TCs 11 and 14-17 (1000°F)	TCs 11 and 14-17 did not exceed their 1000°F limit	PASS
TCs 18-19, 28, and 31-40 (1000°F) Air cavity temps	TCs 18-19, 28, and 31-40 did not exceed their 1000°F limit	PASS
TCs 49-54 (500°F above ambient) 2 <sup>nd</sup> floor temps	TCs 49-54 did not exceed 500°F above their ambient temperatures	PASS

The assembly described containing 8 mm thick Seohan Antamin Co., Ltd, Alfa-FR non-combustible panels **met** the Conditions of Acceptance of NFPA 285-23.

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#### **SECTION 11**

#### PHOTO OF EXTERIOR BURN PATTERN





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#### **SECTION 12**

#### **PHOTOGRAPHS**



Photo No. 1 J-Channel Used



Photo No. 2 Z-Girt Used



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Photo No. 3
Weather Barrier Used



Photo No. 4
Caulking Used on Joints and Window Perimeter



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Photo No. 5
Intumescent Tape used Behind Panel Edges



Photo No. 6
Window Perimeter after Treatment



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Photo No. 7 **Panel Installation in Progress** 



Photo No. 8 **Exterior View Prior to Testing** 



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Photo No. 9
Second Floor View Prior to Testing



Photo No. 10 Ignition of Burn Room



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Photo No. 11 Window Burner Ignition



Photo No. 12 Exterior View During Test



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Photo No. 13 Exterior View During Test



Photo No. 14 View of Wall Post Burners Off



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Photo No. 15
Post-Test View of Wall with Panels Removed



Photo No. 16
Post Test View of Interior Side of Panels



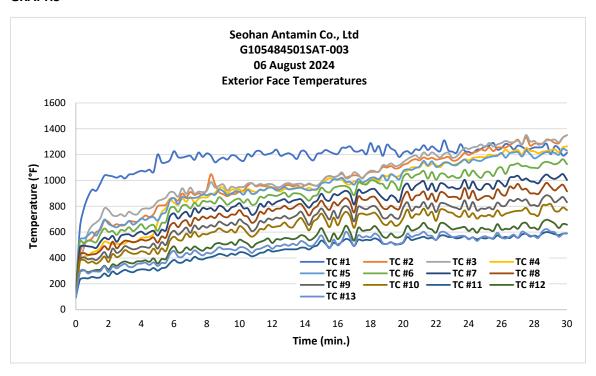
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#### **SECTION 13**

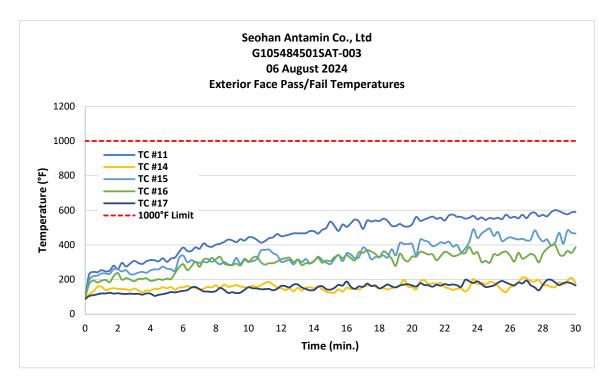
#### **GRAPHS**





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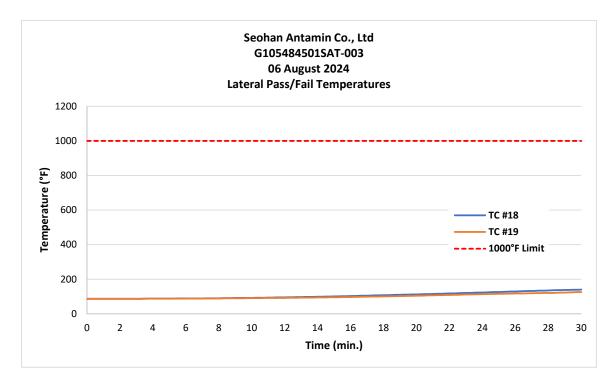
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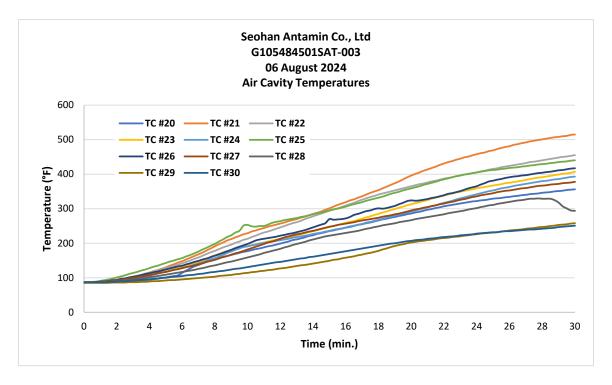
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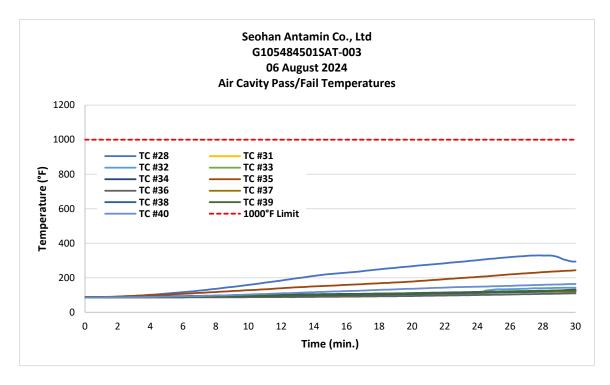
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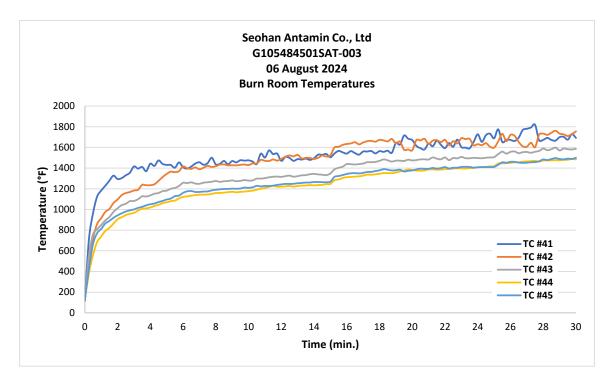
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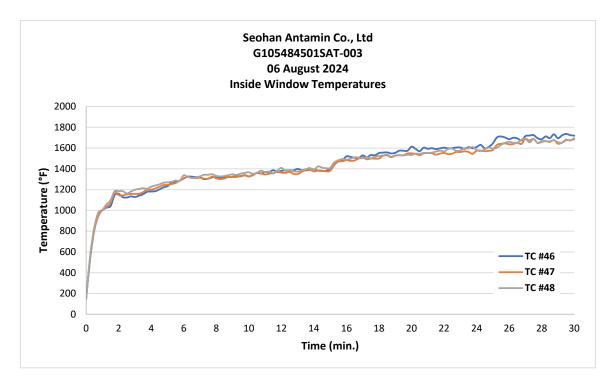
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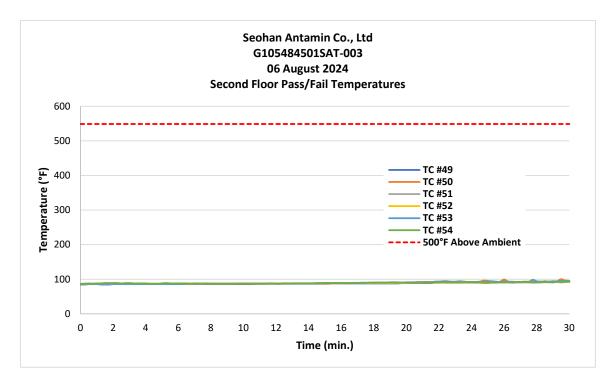


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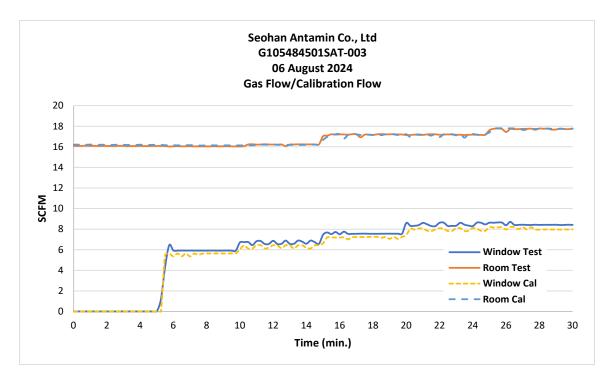
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#### **SECTION 14**

#### **NUMERICAL DATA**

												Pass/		
												Fail		
Time (min)		TC #1 (°F)	(°F)	TC #3 (°F)	(°F)	TC #5 (°F)	TC #6 (°F)	(°F)	TC #8 (°F)	TC #9 (°F)	TC #10 (°F)	(°F)	TC #12 (°F)	(°F)
(mm)		( 1)	( 1)	(1)	( 1)	( 1)	(7)	( 1)	(1)	( 1)	( -7	( '')	1.7	( '')
	0	97	123	106	100	108	106	105	103	102	102	95	97	97
	0.25	630	437	374	369	541	530	482	427	389	377	231	289	295
	0.5	784	517	479	411	551	511	494	438	405	385	244	304	308
	0.75	874	532	599	420	575	535	490	425	390	363	242	290	280
	1	928	553	651	443	600	530	486	428	395	373	254	300	296
	1.25	920	601	675	454	573	522	478	434	384	357	247	307	296
	1.5	977	618	708	478	632	583	524	458	411	378	251	310	297
	1.75	1037	690	785	527	697	628	557	492	446	412	280	340	335
	2	1037	678	771	517	664	601	544	465	402	369	259	310	291
	2.25	1031	649	731	507	647	609	571	527	473	431	296	351	334
	2.5	1021	662	725	510	637	579	525	475	440	407	275	339	320
	2.75	1034	651	739	508	657	617	571	510	457	423	292	361	340
	3	1015	656	723	513	657	611	582	534	492	461	308	373	355
	3.25	1045	686	758	532	686	638	583	530	479	445	296	363	331
	3.5	1048	682	740	519	658	608	568	523	467	433	290	358	332
	3.75	1063	681	738	532	677	632	591	529	473	436	306	374	354
	4	1074	703	774	556	706	662	604	543	487	452	312	374	357
	4.25	1069	729	784	559	694	625	583	535	484	445	311	382	364
	4.5	1083	718	783	565	711	648	599	543	480	431	305	370	346
	4.75	1064	739	801	586	716	655	610	560	512	473	323	397	366
	5 5.25	1201 1139	800 807	839 852	674	690 739	610	574	518	472 523	432	302	357	338
	5.5	1139	812	868	753 786	755	671 678	619 613	567 558	501	475 453	321 327	392 392	362 364
	5.75	1158	857	909	847	844	782	722	647	579	535	360	458	429
	6	1226	864	907	828	862	794	745	672	611	565	385	490	455
	6.25	1180	844	874	811	816	756	705	639	581	540	365	444	410
	6.5	1177	899	940	860	872	803	740	679	606	539	365	447	409
	6.75	1185	871	896	835	863	810	757	692	636	589	386	482	439
	7	1190	911	945	872	865	783	719	648	594	561	378	462	427
	7.25	1159	888	898	829	865	827	785	711	652	603	409	489	459
	7.5	1216	900	914	858	872	801	750	693	623	566	393	470	438
	7.75	1182	889	910	869	893	840	787	721	648	586	389	456	420
	8	1209	930	920	868	885	835	778	706	635	583	401	480	440
	8.25	1192	1048	988	891	898	838	786	723	654	597	407	475	435
	8.5	1140	973	946	904	888	822	765	710	644	605	417	507	455
	8.75	1161	910	959	939	929	870	803	744	681	630	431	516	483
	9	1176	894	970	944	917	846	792	723	665	611	426	506	468
	9.25	1161	878	922	900	887	812	761	715	652	600	416	507	470
	9.5	1193	893	952	929	900	832	790	737	674	620	433	522	467
	9.75	1190	896	942	925	913	852	802	737	656	597	425	501	459
	10	1162	915	950	932	912	858	824	771	699	646	444	541	482
	10.25	1151	922	949	911	890	827	784	731	673	628	443	527	482
	10.5	1204	960	976	933	928	854	784	719	653	589	430	510	465
	10.75	1185	979	979	919	896	813	734	673	608	565	413	481	439
	11	1224	954	960	911	901	821	754	693	628	584	422	509	465
	11.25	1227	962	973	926	929	873	819	758	686	624	439	524	471
	11.5	1199	956	966	924	923	865	796	743	674	622	444	535	485
	11.75	1204	956	973	949	943	887	835	783	705	656	463	551	496



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Seohan Antamin Co., Ltd

06-Aug-2024

												Pass/		
												Fail		
Time													TC #12	
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	12	1214	0.47	070	045	043	005	013	764	505	630	450	F16	471
	12.25	1214 1238	947 937	970 950	945 924	943 923	885 880	813 833	764 781	696 712	639 644	450 454	516 545	471 494
	12.5	1191	951	951	916		892	845	784	707	650	460	542	492
	12.75	1201	960	972	934	949	906	855	804	725	675	467	554	505
	13	1210	965	980	933		873	829	781	705	643	467	552	495
	13.25	1194	955	969	932	937	898	843		715	638	467	545	510
	13.5	1166	961	973	941	941	900	851	809	732	683	468	554	500
	13.75	1224	951	975	950	943	893	854	818	759	710	480	576	531
	14	1225	960	963	931	931	869	818	777	710	666	479	567	517
	14.25	1179	971	978	944	923	843	789	729	655	614	466	538	493
	14.5	1155	964	963	928	929	878	827	778	719	680	487	551	498
	14.75	1205	958	962	930	935	888	846	802	743	703	498	584	535
	15	1211	977	989	976	976	944	897	844	783	744	535	631	576
	15.25	1235	1023	1023	1002	985	917	853	799	740	695	510	575	519
	15.5	1222	1034	1036	1016		908	844		698	639	481	526	475
	15.75	1208	1027	1026	1008		942	893		765	713	518	590	542
	16	1205	1035	1035	1010		953	885	808	707	653	504	546	497
	16.25	1251	1052	1063	1005		958	906		780	722	525	587	531
	16.5	1252	1024	1017	975	989	955	920		802	758	547	650	603
	16.75	1263	1033	1026	969	989	936	896		769	722	535	601	559
	17	1227	1040	1064	993	967	886	814		683	633	492	534	492
	17.25 17.5	1223 1234	1037 1020	1046 1015	989 972	1010 985	983 974	926 903		796	733 744	541	634	575 559
	17.75	1202	1049	1015	976		969	913		787 777	735	535 541	611 615	568
	18	1289	1049	1075	1003		999	931	871	796	742	538	620	560
	18.25	1222	1067	1073	1010		997	933	873	802	751	552	647	588
	18.5	1266	1069	1067	991	1009	977	897	834	769	717	539	613	570
	18.75	1190	1104	1118			972	864		712	668	511	567	516
	19	1276	1100	1114	1031	998	936	847		709	656	509	557	509
	19.25	1247	1111	1132	1050		991	884		737	685	521	589	524
	19.5	1229	1093	1112	1029		972	867	785	710	650	508	561	502
	19.75	1181	1098	1118	1035	1008	925	835	780	709	661	506	560	510
	20	1214	1121	1142	1065	1072	1025	943	867	791	710	519	583	525
	20.25	1226	1132	1165	1077	1086	1052	976	914	831	775	562	649	587
	20.5	1207	1155	1183	1100	1081	1020	925	847	765	711	539	613	563
	20.75	1240	1165	1195	1102	1096	1041	958	881	796	739	547	621	576
	21	1235	1156	1174	1101	1109	1052	979	889	793	738	556	639	583
	21.25	1272	1178	1218				994		833	782	564	672	603
	21.5	1235	1166	1193	1110		1014	926	852	781	729	551	633	574
	21.75	1263	1176	1218	1128			977	899	823	758	557	620	571
	22	1240		1198			1005	915	836	755	687	541	596	538
	22.25	1226	1167	1178				976		821	772	571	666	596
	22.5	1310		1207	1132		1051	971	903	823	774	575	668	602
	22.75 23	1234 1222	1183	1215	1135			944		809 795	755	563	644	582
	23.25	1214	1155 1156	1176 1186	1120 1127			948 935	874 872	787	749 725	562 552	621	563
	23.25	1214	1181	1222	1127	1118	1020	935	859	780	725	552 557	628 634	565 571
	23.75	1229	1213	1252	1163			1005	942	846	769	568	640	569
		1773	1213	1232	1103	1102	1003	1003	342	340	709	508	040	209



## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

Report No.: G105484501SAT-003 R0

Date: 08/15/24

G105484501SAT-003

Seohan Antamin Co., Ltd

06-Aug-2024

												Pass/ Fail		
Time		TC #1	TC #2	TC #3	TC#4	TC#5	TC#6	TC#7	TC#8	TC#9	TC#10		TC #12	TC#13
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
											• •			
	24	1220	1197	1244	1155	1136	1035	936	861	773	717	548	609	544
	24.25	1211	1216	1257	1174	1162	1076	992	921	833	747	559	627	561
	24.5	1237	1223	1262	1179	1154	1042	938	852	767	705	545	595	532
	24.75	1243	1241	1279	1181	1151	1020	929	862	782	728	556	633	559
	25	1264	1231	1258	1179	1171	1062	969	879	780	723	551	623	568
	25.25	1269	1256	1291	1199	1180	1065	969	878	791	734	557	621	557
	25.5	1290	1227	1262	1191	1187	1034	934	861	777	721	549	609	555
	25.75	1238	1254	1279	1199	1191	1089	997	932	829	769	575	662	595
	26	1250	1256	1290	1206	1213	1101	979	894	803	728	557	619	558
	26.25	1282	1255	1306	1238	1176	1050	954	886	806	743	563	626	551
	26.5	1271	1275	1296	1215	1210	1113	1020	953	849	752	554	623	564
	26.75	1240	1294	1296	1229	1216	1121	1026	939	839	761	574	644	581
	27	1269	1316	1309	1235	1219	1132	1036	974	858	765	555	626	557
	27.25	1259	1278	1279	1200	1185	1111	1003	931	841	768	582	666	604
	27.5	1240	1335	1352	1251	1227	1112	1015	936	853	788	587	671	590
	27.75	1243	1270	1302	1229	1204	1100	994	902	809	745	566	633	574
	28	1255	1285	1306	1225	1171	1098	989	901	810	738	574	635	569
	28.25	1255	1286	1277	1211	1185	1097	978	896	803	728	565	621	555
	28.5	1259	1284	1288	1222	1207	1133	1021	941	859	806	589	675	607
	28.75	1284	1316	1310	1227	1219	1144	1046	982	885	809	601	696	624
	29	1203	1310	1312	1234	1215	1136	1023	951	872	818	595	685	605
	29.25	1264	1291	1317	1241	1214	1125	1012	923	831	766	584	666	599
	29.5	1248		1296		1198	1137	1029	948	850	762	577	632	564
	29.75	1192	1332	1333	1256	1244	1164	1049	967	872	791	588	663	586
	30	1213	1351	1352	1263	1230	1126	1003	916	831	771	591	658	590
Max 1	Гетр											601		
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# **TEST REPORT FOR SEOHAN ANTAMIN CO., LTD**

Report No.: G105484501SAT-003 R0

Date: 08/15/24

		Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
		Fail	Fail	Fail	Fail	Fail	Fail								
Time			TC#15					TC#20		TC #22				TC#26	Contract of the Contract of th
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	0	90	96	92	88	87	87	86	87	87	87	87	87	87	87
	0.25	114	199	176		87	87	86	88	87	87	87	87		87
	0.5		219				87	86	88	87	87	87	88		87
	0.75	157	223	183		87	87	86	88	88	87	87	89		87
	1		235				87	86	88	88	88	88	91	89	88
	1.25	138	235	198	120	87	87	86	89	89	88	88	93	90	89
	1.5	146	233	185	124	87	87	87	90	91	89	89	95	91	90
	1.75		260			87	87	87	91	92	90	90	98		91
	2		259			87	87	87	93	94	91	91	101	94	93
	2.25	145	247	199		87	87	88	95	96	93	93	104		94
	2.5		254			87	87	88	97	98	94	94	107		96
	2.75	137	231	200		87	87	89	100	101	96	97	111		98
	3		230			87	87	90	103	103	98	98	114		100
	3.25	138 126	240 244	203 204		87 88	87 87	91 92	106 108	106 108	100 103	100 102	117 121	105 108	102 104
	3.75	137	239				88	93	112	112	105	102	124		104
	4		253	192		88	88	94	115	114	107	107	128		108
	4.25	147	259				88	96	119	118	110		132		110
	4.5	146	259			88	88	97	122	121	113		135		113
	4.75	155	275	198		88	88	99	126	124	116	115	139		115
	5	149	263	205	121	88	88	101	130	128	118	117	143	124	117
	5.25	157	260	203	128	88	88	103	135	131	121	120	147	127	120
	5.5	141	251	237	126	89	88	105	139	135	124	123	150	130	123
	5.75	154	326	272	131	89	88	107	144	138	128	125	154	133	125
	6	155	339			89	88	114	148	142	130		157	135	128
	6.25	162	300			89	89	121	153	146	134		162		131
	6.5	155	312			89	88	127	158	150	137	134	166		133
	6.75 7	152	301	303		89	89	133	163	155	141	138	171		136
	7.25	143 147	297 303	274 316		89 90	89 89	137 142	168 173	159 164	145 149	141 145	176 182		139 142
	7.5	157	300			90	89	146	179	169	153	149	187	156	146
	7.75	154	325			90	89	150	185	174	161	154	193		149
	8	167	303	317		90	89	154	191	178	165	157	198		152
	8.25	150	288	331	152	91	90	158	197	183	169	162	205	168	156
	8.5	171	301	293	141	91	90	160	202	188	174	166	211	172	160
	8.75	158	288	284	123	91	90	163	208	192	177	172	218	177	163
	9	162	287	283	127	92	90	166	212	196	180	176	223	181	167
	9.25	168	325			92			217	201	184		231		171
	9.5	160	290			92	90	172	221	205	188	185	236		174
	9.75	156	320			92	91	175	226	210	190		251		178
	10		304	301		92	91	177	229	213	192	191	253	198	182
	10.25	164	307				91	180	234	218		194	249		186
	10.5 10.75	157 167	319 368			93 93	91 92	183 185	237 241	222 227	197 200	196 199	248 250		190 194
	10.75	180	371			93	92	188	241	231	200	201	250		194
	11.25	185	373			94	92	191	244	231	202	201	254		202
	11.5	170	352			95	92	193	251	234	208	205	259	217	202
	11.75	154	340			95	92	196	254	242	210	207	262		209



## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

Report No.: G105484501SAT-003 R0

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Pass																
Time			Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
The color																
12																-
12.25	(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
12.25																
12.5																
12.75																
13																
13.25																
13.5																
13.75   155   294   293   138   98   94   221   281   274   232   224   281   242   234     14   149   305   308   140   99   95   227   288   282   238   229   287   250   239     14.5   145   313   297   162   100   95   227   228   286   241   231   289   254   242     14.75   130   298   310   145   100   96   232   297   290   244   234   292   258   245     15   152   289   306   142   101   96   235   301   294   247   236   295   270   248     15.25   124   318   329   152   101   96   237   306   298   250   239   298   268   250     15.5   131   306   324   165   102   97   240   311   301   253   241   300   269   253     15.75   131   306   324   165   102   97   245   319   309   259   246   306   270   272     16.25   145   344   324   159   103   97   245   319   309   259   246   306   270   272     16.5   148   323   311   146   104   98   250   327   317   264   251   313   282   261     16.75   143   329   358   161   105   99   253   332   322   268   254   316   285   264     17   159   385   354   158   105   99   253   332   322   268   254   316   285   264     17.5   165   365   370   177   106   100   258   341   330   275   260   323   293   268     17.5   165   365   370   348   166   107   100   260   346   334   278   262   326   295   270     18.5   143   327   347   172   109   102   271   364   347   292   272   339   300   279   272     18.5   151   375   320   161   110   102   274   369   350   357   362   365   363   363   363   363   363   363   363   363   364   366   371   371   371   371   372   373   374   373   372   373   374   37																
14       149       305       308       140       99       95       223       285       278       235       227       284       246       236         14.5       161       332       325       158       99       95       227       288       282       238       229       287       250       234         14.75       130       298       310       145       100       96       232       297       290       244       234       292       258       245         15.25       128       306       142       101       96       235       301       294       247       236       295       250       25       707       248         15.25       143       343       339       170       102       97       240       311       301       253       241       300       269       253         15.55       143       340       381       103       97       242       311       301       256       243       303       270       255         16.25       145       344       324       159       103       98       247       324       313       2																
14.25																
14.5																
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15.25																
15.5																
15.75																
16         153         352         340         189         103         97         245         319         309         259         246         306         272         257           16.5         148         324         324         159         103         98         247         324         313         262         249         310         276         259           16.5         148         323         311         146         104         98         250         327         317         264         251         313         282         261           16.5         143         329         358         161         105         99         255         336         362         251         313         282         266           17.5         165         365         370         177         106         100         263         350         337         282         262         326         295         270           17.75         165         337         362         163         107         100         263         354         341         285         262         326         295         270           18.75         159																
16.25         145         344         324         159         103         98         247         324         313         262         249         310         276         259           16.5         148         323         311         146         104         98         250         327         317         264         251         313         282         261           17         159         385         354         158         105         99         255         336         326         271         256         319         289         266           17.5         165         365         370         177         106         100         258         341         330         275         260         323         293         268           17.5         165         317         362         163         107         100         263         350         337         282         265         329         299         272           18         149         332         327         149         108         101         269         359         344         289         271         335         300         277           18.51																
16.75       143       329       358       161       105       99       253       332       322       268       254       316       285       264         17       159       385       354       158       105       99       255       336       326       271       256       319       289       266         17.5       165       365       370       177       106       100       258       341       330       275       260       323       293       268         17.5       165       317       362       163       107       100       263       350       337       282       265       329       299       272         18       149       332       327       149       108       101       266       354       341       285       268       332       301       274         18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.5       151       375       320       161       110       102       274       369       350 <td< th=""><th></th><th></th><th>145</th><th>344</th><th>324</th><th>159</th><th>103</th><th>98</th><th>247</th><th>324</th><th>313</th><th>262</th><th>249</th><th>310</th><th>276</th><th>259</th></td<>			145	344	324	159	103	98	247	324	313	262	249	310	276	259
17         159         385         354         158         105         99         255         336         326         271         256         319         289         266           17.25         165         365         370         177         106         100         258         341         330         275         260         323         293         268           17.55         165         317         362         163         107         100         260         346         334         278         262         329         299         272           18         149         332         327         149         108         101         266         354         341         285         268         332         301         274           18.5         143         327         347         172         109         102         271         364         347         292         274         339         302         279           18.75         151         375         320         161         110         102         274         369         350         296         277         343         305         281           19.25		16.5	148	323	311	146	104	98	250	327	317	264	251	313	282	261
17.25       165       365       370       177       106       100       258       341       330       275       260       323       293       268         17.5       165       317       362       163       107       100       260       346       334       278       262       326       295       270         17.75       159       330       348       166       107       100       263       350       337       282       265       329       299       272         18       149       332       327       149       108       101       266       354       341       285       268       332       301       274         18.5       150       339       362       159       108       101       266       359       344       289       271       335       300       277         18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.75       151       375       320       161       110       102       274       369       350		16.75	143	329	358	161	105	99	253	332	322	268	254	316	285	264
17.5       165       317       362       163       107       100       260       346       334       278       262       326       295       270         17.75       159       330       348       166       107       100       263       350       337       282       265       329       299       272         18       149       332       327       149       108       101       266       354       341       285       268       332       301       274         18.5       150       339       362       159       108       101       269       359       344       289       271       335       300       277         18.5       143       327       347       172       109       102       274       369       350       296       277       343       305       281         19       155       340       279       155       110       103       276       374       353       299       280       346       308       284         19.25       165       411       349       166       111       103       279       379       356		17	159	385	354	158	105	99	255	336	326	271	256	319	289	266
17.75       159       330       348       166       107       100       263       350       337       282       265       329       299       272         18       149       332       327       149       108       101       266       354       341       285       268       332       301       274         18.25       150       339       362       159       108       101       269       359       344       289       271       335       300       277         18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.75       151       375       320       161       110       102       274       369       350       296       277       343       305       281         19.5       155       400       279       155       110       103       276       374       353       299       280       346       308       284         19.5       200       405       317       171       111       104       281       385       359		17.25	165	365	370	177	106	100	258	341	330	275	260	323	293	268
18       149       332       327       149       108       101       266       354       341       285       268       332       301       274         18.25       150       339       362       159       108       101       269       359       344       289       271       335       300       277         18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.75       151       375       320       161       110       102       274       369       350       296       277       343       305       281         19       155       340       279       155       110       103       276       374       353       299       280       346       308       284         19.55       165       411       349       166       111       103       279       379       356       303       283       349       313       286         19.55       200       405       333       166       112       104       284       391       362		17.5	165	317	362	163	107	100	260	346	334	278	262	326	295	270
18.25       150       339       362       159       108       101       269       359       344       289       271       335       300       277         18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.75       151       375       320       161       110       102       274       369       350       296       277       343       305       281         19       155       340       279       155       110       103       276       374       353       299       280       346       308       284         19.5       200       405       317       171       111       104       281       385       359       306       286       353       317       289         19.75       159       405       305       173       112       104       284       391       362       310       289       356       322       292         20.5       143       341       332       160       113       105       286       366       313		17.75	159	330	348	166	107	100	263	350	337	282	265	329	299	272
18.5       143       327       347       172       109       102       271       364       347       292       274       339       302       279         18.75       151       375       320       161       110       102       274       369       350       296       277       343       305       281         19       155       340       279       155       110       103       276       374       353       299       280       346       308       284         19.25       165       411       349       166       111       103       279       379       356       303       283       349       313       286         19.5       200       405       317       171       111       104       284       391       362       310       289       356       322       292         20       156       405       333       166       112       105       286       396       365       313       292       359       324       295         20.25       143       341       332       160       113       105       289       401       368		18	149	332	327	149	108	101	266	354	341	285	268	332	301	274
18.75         151         375         320         161         110         102         274         369         350         296         277         343         305         281           19         155         340         279         155         110         103         276         374         353         299         280         346         308         284           19.25         165         411         349         166         111         103         279         379         356         303         283         349         313         286           19.5         200         405         317         171         111         104         284         385         359         306         286         353         317         289           19.75         159         405         305         173         112         104         284         391         362         310         289         356         322         292           20         156         405         333         166         112         105         286         396         365         313         292         359         324         295           20.25		18.25	150	339	362	159	108	101	269	359	344	289	271	335	300	
19         155         340         279         155         110         103         276         374         353         299         280         346         308         284           19.25         165         411         349         166         111         103         279         379         356         303         283         349         313         286           19.5         200         405         317         171         111         104         281         385         359         306         286         353         317         289           19.75         159         405         305         173         112         104         284         391         362         310         289         356         322         292           20.5         148         341         332         166         112         105         289         401         368         316         295         362         323         298         240         295         365         313         292         359         324         295           20.5         188         430         360         179         114         106         291         405			143	327	347	172	109	102	271	364	347	292	274	339	302	279
19.25       165       411       349       166       111       103       279       379       356       303       283       349       313       286         19.5       200       405       317       171       111       104       281       385       359       306       286       353       317       289         19.75       159       405       305       173       112       104       284       391       362       310       289       356       322       292         20       156       405       333       166       112       105       286       396       365       313       292       359       324       295         20.5       188       430       360       179       114       106       291       405       371       319       298       365       324       300         20.75       197       425       354       169       114       107       294       410       373       322       301       369       326       303         21       173       417       344       167       115       107       297       414       376			151	375	320	161	110	102		369	350		277	343		
19.5         200         405         317         171         111         104         281         385         359         306         286         353         317         289           19.75         159         405         305         173         112         104         284         391         362         310         289         356         322         292           20         156         405         333         166         112         105         286         396         365         313         292         359         324         295           20.5         143         341         332         160         113         105         289         401         368         316         295         362         323         298           20.5         188         430         360         179         114         106         291         405         371         319         298         365         324         300           20.75         197         425         354         169         114         107         294         410         373         322         301         369         326         303           21.25																
19.75         159         405         305         173         112         104         284         391         362         310         289         356         322         292           20         156         405         333         166         112         105         286         396         365         313         292         359         324         295           20.25         143         341         332         160         113         105         289         401         368         316         295         362         323         298           20.5         188         430         360         179         114         106         291         405         371         319         298         365         324         300           20.75         197         425         354         169         114         107         294         410         373         322         301         369         326         303           21         173         417         344         167         115         107         297         414         376         325         304         372         328         305           21.25																
20         156         405         333         166         112         105         286         396         365         313         292         359         324         295           20.25         143         341         332         160         113         105         289         401         368         316         295         362         323         298           20.5         188         430         360         179         114         106         291         405         371         319         298         365         324         300           20.75         197         425         354         169         114         107         294         410         373         322         301         369         326         303           21         173         417         344         167         115         107         297         414         376         325         304         372         328         305           21.25         179         393         345         159         116         108         299         418         379         329         307         375         331         308           21.75																
20.25       143       341       332       160       113       105       289       401       368       316       295       362       323       298         20.5       188       430       360       179       114       106       291       405       371       319       298       365       324       300         20.75       197       425       354       169       114       107       294       410       373       322       301       369       326       303         21       173       417       344       167       115       107       297       414       376       325       304       372       328       305         21.25       179       393       345       159       116       108       299       418       379       329       307       375       331       308         21.5       175       400       311       170       116       108       302       422       381       332       310       378       333       310         21.75       181       415       336       165       117       109       304       427       384																
20.5         188         430         360         179         114         106         291         405         371         319         298         365         324         300           20.75         197         425         354         169         114         107         294         410         373         322         301         369         326         303           21         173         417         344         167         115         107         297         414         376         325         304         372         328         305           21.25         179         393         345         159         116         108         299         418         379         329         307         375         331         308           21.5         175         400         311         170         116         108         302         422         381         332         310         378         333         310           21.5         181         415         336         165         117         109         304         427         384         335         314         382         336         313           22.15																
20.75       197       425       354       169       114       107       294       410       373       322       301       369       326       303         21       173       417       344       167       115       107       297       414       376       325       304       372       328       305         21.25       179       393       345       159       116       108       299       418       379       329       307       375       331       308         21.5       175       400       311       170       116       108       302       422       381       332       310       378       333       310         21.75       181       415       336       165       117       109       304       427       384       335       314       382       336       313         22       157       410       360       174       118       109       307       431       387       338       317       385       339       315         22.25       149       419       351       169       118       110       309       435       389																
21         173         417         344         167         115         107         297         414         376         325         304         372         328         305           21.25         179         393         345         159         116         108         299         418         379         329         307         375         331         308           21.5         175         400         311         170         116         108         302         422         381         332         310         378         333         310           21.75         181         415         336         165         117         109         304         427         384         335         314         382         336         313           22         157         410         360         174         118         109         307         431         387         338         317         385         339         315           22.25         149         419         351         169         118         110         309         435         389         341         320         388         343         318           22.5																
21.25       179       393       345       159       116       108       299       418       379       329       307       375       331       308         21.5       175       400       311       170       116       108       302       422       381       332       310       378       333       310         21.75       181       415       336       165       117       109       304       427       384       335       314       382       336       313         22       157       410       360       174       118       109       307       431       387       338       317       385       339       315         22.25       149       419       351       169       118       110       309       435       389       341       320       388       343       318         22.5       140       390       335       172       119       110       311       438       391       344       323       391       345       320         22.75       147       400       339       167       120       111       313       442       394																
21.5         175         400         311         170         116         108         302         422         381         332         310         378         333         310           21.75         181         415         336         165         117         109         304         427         384         335         314         382         336         313           22         157         410         360         174         118         109         307         431         387         338         317         385         339         315           22.25         149         419         351         169         118         110         309         435         389         341         320         388         343         318           22.5         140         390         335         172         119         110         311         438         391         344         323         391         345         320           22.75         147         400         339         167         120         111         313         442         394         347         327         394         348         323           23																
21.75       181       415       336       165       117       109       304       427       384       335       314       382       336       313         22       157       410       360       174       118       109       307       431       387       338       317       385       339       315         22.25       149       419       351       169       118       110       309       435       389       341       320       388       343       318         22.5       140       390       335       172       119       110       311       438       391       344       323       391       345       320         22.75       147       400       339       167       120       111       313       442       394       347       327       394       348       323         23       149       359       351       158       121       112       315       445       396       349       330       396       351       326         23.25       131       380       353       199       121       112       317       449       399																
22     157     410     360     174     118     109     307     431     387     338     317     385     339     315       22.25     149     419     351     169     118     110     309     435     389     341     320     388     343     318       22.5     140     390     335     172     119     110     311     438     391     344     323     391     345     320       22.75     147     400     339     167     120     111     313     442     394     347     327     394     348     323       23     149     359     351     158     121     112     315     445     396     349     330     396     351     326       23.25     131     380     353     199     121     112     317     449     399     352     333     399     355     328       23.5     152     418     388     190     122     113     319     451     400     354     336     401     359     331																
22.25       149       419       351       169       118       110       309       435       389       341       320       388       343       318         22.5       140       390       335       172       119       110       311       438       391       344       323       391       345       320         22.75       147       400       339       167       120       111       313       442       394       347       327       394       348       323         23       149       359       351       158       121       112       315       445       396       349       330       396       351       326         23.25       131       380       353       199       121       112       317       449       399       352       333       399       355       328         23.5       152       418       388       190       122       113       319       451       400       354       336       401       359       331																
22.5     140     390     335     172     119     110     311     438     391     344     323     391     345     320       22.75     147     400     339     167     120     111     313     442     394     347     327     394     348     323       23     149     359     351     158     121     112     315     445     396     349     330     396     351     326       23.25     131     380     353     199     121     112     317     449     399     352     333     399     355     328       23.5     152     418     388     190     122     113     319     451     400     354     336     401     359     331																
22.75     147     400     339     167     120     111     313     442     394     347     327     394     348     323       23     149     359     351     158     121     112     315     445     396     349     330     396     351     326       23.25     131     380     353     199     121     112     317     449     399     352     333     399     355     328       23.5     152     418     388     190     122     113     319     451     400     354     336     401     359     331																
23     149     359     351     158     121     112     315     445     396     349     330     396     351     326       23.25     131     380     353     199     121     112     317     449     399     352     333     399     355     328       23.5     152     418     388     190     122     113     319     451     400     354     336     401     359     331																
23.25     131     380     353     199     121     112     317     449     399     352     333     399     355     328       23.5     152     418     388     190     122     113     319     451     400     354     336     401     359     331																
<b>23.5</b> 152 418 388 190 122 113 319 451 400 354 336 401 359 331																



## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

Report No.: G105484501SAT-003 R0

Date: 08/15/24

	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/								
	Fail	Fail	Fail	Fail	Fail	Fail								
Time		TC#15	TC#16	TC#17	TC #18	TC#19	TC#20	TC #21	TC #22	TC #22	TC #24	TC #25	TC#26	TC #27
(min)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
(11111)	(1)	(1)	(1)	(1)	117	(1)	(1)	(-1)	(1)	(1)	(1)	(1)	(1)	(17)
24	174	440	357	190	123	114	322	458	405	359	342	405	365	336
24.25		466	301	173	124			461	408	361	345		370	339
24.5	171	483	308	157	125	115	325	463	410	363	348	409	374	341
24.75	187	494	297	160	126	115	327	467	413	365	351	411	379	343
25	181	452	345	166	126	116	329	469	415	367	353	412	381	345
25.25	164	475	340	182	127	116	330	473	417	369	356	413	384	348
25.5	137	422	356	192	128	117	331	476	420	371	359	415	386	350
25.75	128	435	361	183	129	117	333	479	422	374	361	416	389	352
26	156	444	337	173	129	118	334	481	424	375	363	418	391	353
26.25	163	437	303	167	130	118	336	485	426	377	366	419	393	355
26.5	185	432	354	183	131	118	337	487	428	379	368	420	394	357
26.75	212	435	320	178	132	119	339	490	430	381	370	422	396	359
27	207	426	332	195	132	119	340	492	432	383	372	423	397	360
27.25	190	430	347	168	133	120	342	495	435	386	374	425	399	362
27.5		484			134			497		388			401	364
27.75		446			134		344	499		390			403	366
28		420			135		346	501	440	391	380		404	367
28.25		432	377	197	136		347	503		393	381		406	368
28.5		398			137			505		395	383		407	370
28.75		414			137			507	446	397	385		409	371
29		470			138			508		399	386		411	372
29.25		407	338		138			510		401	388		412	374
29.5		483	365		139		354	511		402	390		414	375
29.75					139			514		404				376
30	179	466	386	166	140	126	356	515	455	407	393	440	417	378
Max Temp	212	494	400	199	140	126								
Max Allw	1000		1000		1000	1000								



**TEST REPORT FOR SEOHAN ANTAMIN CO., LTD** 

Report No.: G105484501SAT-003 R0

Date: 08/15/24

G105484501SAT-003 Seohan Antamin Co., Ltd

06-Aug-2024

		Pass/			Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
		Fail	TC #30	TC #30	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Time (min)		TC #28 (°F)	(°F)	TC #30 (°F)	TC#31 (°F)	TC #32 (°F)	TC#33 (°F)	TC #34 (°F)	TC #35 (°F)	TC #36 (°F)	TC #37 (°F)	TC #38 (°F)	TC #39 (°F)	TC #40 (°F)
(min)		( )	(-1)	( )	( )	( )	( )	( )	( 7)	( )	( )	( 7)	( )	( )
	0	86	85	87	88	88	88	88	88	86	87	87	87	86
	0.25	87	85	87	88	88	88	88	87	86	87	87	87	86
	0.5	87	85	87	88	88	88	88	88	86	87	87	87	86
	0.75	87	85	87	88	88	88	88	88	86	87	87	87	86
	1	87	85	87	88	88	88	88	88	86	87	87	88	86
	1.25	88	85	87	88	88	88	88	89	86	87	87	88	87
	1.5	88	85	88		88	89	88	89	86	87	87	88	87
	1.75	89	86	88	88	88	89	88	90	86	87	87	88	87
	2	90	86	89	88	88	89	89	91	86	87	87	88	87
	2.25	92	86	90		89	89	89	92	86	87	88	88	87
	2.5	93 94	86 87	90 91	89 89	89 89	90 90	89 89	93 94	86 86	87 87	88 88	88 89	87 88
	3	95	87	92	89	89	90	90	95	86	88		89	88
	3.25	97	87	93	89	89	91	90	96	86	87	88	89	88
	3.5	98	88	94	89	89	91	90	96	86	87	88	89	88
	3.75	100	88	95	89	89	91	91	98	86	88		89	89
	4	102	89	96		90	91	91	98	86	88		89	89
	4.25	103	90	97	89	90	91	91	99	86	88	88	89	89
	4.5	105	90	98	89	90	92	91	100	86	88	88	90	90
	4.75	107	91	100	90	90	92	92	101	86	88	89	90	91
	5	109	92	100	90	90	92	92	102	86	88	89	90	91
	5.25	111	93	102	90	91	93	92	103	86	88	89	90	91
	5.5	113	93	103	90	91	93	93	105	86	88		90	92
	5.75	115	94	104	90	91	93	93	106	86	88		91	92
	6	117	95	105	90	91	93	93	107	86	89		91	93
	6.25	119	96	107	91	91	94	93	108	87	89	89	91	93
	6.5 6.75	121 123	97 98	108 109	91 91	91 92	94 94	94 94	109 111	87 87	89 89	90 90	91 92	93 94
	7	126	99	111	91	92	94	94	112	87	89		92	94
	7.25	128	100	112	91	92	95	95	113	87	89	90	92	95
	7.5	131	101	114	91	92	95	95	115	87	89		93	96
	7.75	134	102	116	92	92	95	95	116	87	90		93	96
	8	136	103	117	92	93	96	96	117	87	90		93	97
	8.25	139	105	119	92	93	96	96	119	87	90		94	98
	8.5	142	106	120	92	93	96	96	120	87	90	92	94	98
	8.75	145	107	122	92	93	96	97	121	87	91	92	94	99
	9	147	108	124	92	93	97	97	123	87	91	92	94	100
	9.25	150	110	126	93	93	97	98	124	87	91	92	95	101
	9.5	153	111	127	93	94	97	98	125	87	91	92	95	101
	9.75	156	113	129	93	94	98	98	127	87	91	93	95	102
	10	159	114	131	93	94	98	99	128	88	91	93	95	103
	10.25	162	116	133	93	94	98	99	129	88	92		96	104
	10.5	165	117	135	94	95	99	99	130	88	92		96	105
	10.75 11	168 172	119 120	137 139	94 94	95 95	99 99	100 100	132 133	88 88	92 92		96 97	106
	11.25	172	120	141	94	95 95	100	100	133	88	92		97	100
	11.25	175	122	141	94	96	100	100	134	88	92		97	107
	11.75	181	125	145	95	96	100	101	138	88	93		98	108
	11./3	101	125	145	95	96	100	101	138	08	93	95	98	109



## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

Report No.: G105484501SAT-003 R0

Date: 08/15/24

Fail		Pass/			Pass/									
The color   The														Fail
The color   The	Time		TC#29	TC#30										TC#40
12 184 127 146 95 96 101 101 139 88 93 95 12.25 188 128 148 95 97 101 102 141 89 94 95 12.5 188 128 148 95 97 101 102 141 88 94 96 12.75 195 132 152 96 97 101 102 144 88 94 96 13.75 195 132 152 96 97 101 102 144 88 94 96 13.5 198 134 154 96 97 102 103 145 89 94 95 13.25 201 136 156 96 97 102 103 145 89 94 96 13.5 204 137 157 97 98 102 103 146 89 95 96 13.5 204 137 157 97 98 102 103 147 89 95 97 14 211 141 161 97 98 103 104 150 88 96 98 14.25 214 143 163 97 98 103 104 150 88 96 98 14.25 214 143 163 97 98 103 104 151 90 96 98 14.5 217 145 165 97 98 103 104 151 90 96 98 14.75 220 147 167 98 99 103 105 152 90 97 98 15.5 224 152 171 98 99 104 105 154 90 97 99 15.5 224 152 171 98 99 104 105 155 90 98 99 15.5 226 153 173 98 99 104 106 156 90 98 99 104 105 155 90 98 99 105 15.75 228 156 175 98 99 104 106 156 90 98 90 15.5 232 160 179 99 100 105 106 160 91 99 101 16.5 234 162 181 100 100 105 106 161 91 99 101 16.5 234 162 181 100 100 105 106 161 91 99 101 16.75 236 165 183 100 100 105 106 161 91 99 101 16.75 244 172 189 101 101 106 108 167 92 100 102 17.25 244 172 189 101 101 106 108 167 92 100 102 17.25 242 170 187 100 101 105 106 161 91 99 101 16.75 244 172 189 101 101 106 108 167 92 100 102 17.55 244 172 189 101 101 106 108 167 92 100 102 17.55 244 172 189 101 101 106 108 167 92 100 102 17.55 244 178 193 101 102 106 108 167 92 100 102 17.55 244 178 193 101 102 106 108 168 93 102 104 105 19.55 256 189 199 102 102 107 108 170 93 102 104 105 19.55 256 189 199 102 102 107 109 173 93 103 105 19.55 256 189 199 102 102 107 109 173 93 103 105 19.55 256 189 199 102 102 107 109 173 93 103 105 106 106 107 106 108 167 92 101 103 18.55 254 185 197 102 102 107 109 173 93 103 105 105 106 107 108 174 94 104 105 19.55 266 270 204 209 103 103 108 109 177 94 105 106 107 108 175 266 270 204 209 103 103 108 109 177 94 105 106 107 108 175 266 270 204 209 103 103 108 109 177 94 105 106 107 108 122 284 215 218 104 105 109 111 1185 96 107 108 121.55 282 214 217 106 107 110 111 112 192 97 108 109 111 111 112 192 97 109 110 122 22.58 2214 217														(°F)
12.25 188 128 148 95 97 101 102 141 89 94 95 12.5 191 130 150 95 97 101 102 142 88 94 96 12.75 195 132 152 96 97 101 102 144 88 94 96 13 198 134 154 96 97 102 103 145 89 94 96 13.25 201 136 156 96 97 102 103 145 89 95 96 13.55 204 137 157 97 98 102 103 146 89 95 97 13.75 208 139 160 97 98 102 104 149 89 95 97 14 211 141 161 97 98 103 104 150 89 96 98 14.25 214 143 163 97 98 103 104 151 90 96 98 14.55 220 147 167 98 99 103 105 153 90 97 98 14.75 220 147 167 98 99 103 105 153 90 97 99 15 222 149 169 98 99 104 105 154 90 97 99 15.25 224 152 171 98 99 104 106 156 90 98 99 15.55 226 153 173 98 99 104 106 156 90 98 99 15.575 228 156 175 98 99 104 106 156 90 98 100 16 230 158 177 99 100 105 106 159 91 98 100 16.25 234 162 181 100 100 105 106 160 91 99 101 16.55 234 162 181 100 100 105 106 161 91 99 101 16.55 234 162 181 100 100 105 106 161 91 99 101 16.75 240 170 187 100 101 105 106 169 91 100 102 17.25 242 170 187 100 101 105 106 169 92 101 103 18.25 252 182 195 101 101 106 108 167 92 101 103 18.25 254 185 193 101 102 106 108 168 93 102 103 18.25 252 182 195 101 102 106 108 167 92 101 103 18.25 254 185 197 102 102 107 108 170 93 102 104 18.75 266 189 199 102 102 107 108 170 93 103 105 19 258 192 200 102 102 107 108 170 93 103 105 19.25 274 207 207 103 103 103 108 109 177 94 105 106 19.25 274 207 207 103 103 103 108 109 177 94 105 106 19.25 274 207 207 103 103 103 108 109 177 94 105 106 19.25 277 204 209 103 104 106 1188 97 108 109 20.55 277 204 209 213 104 105 109 111 183 96 106 108 21 276 209 213 104 105 106 110 112 188 97 108 109 21.55 282 214 214 217 106 107 110 112 188 97 108 109 21.55 282 214 214 217 106 107 110 112 188 97 108 109 21.55 282 214 214 217 106 107 110 111 113 194 98 109 111			, ,											
12.5 191 130 150 95 97 101 102 142 88 94 96 12.75 195 132 152 96 97 101 102 144 88 94 96 13 198 134 154 96 97 102 103 145 89 94 96 13.25 201 136 156 96 97 102 103 146 89 95 96 13.5 204 137 157 97 98 102 103 147 89 95 97 13.75 208 139 160 97 98 102 103 147 89 95 97 14 211 141 161 97 98 103 104 151 90 96 98 14.5 214 143 163 97 98 103 104 151 90 96 98 14.5 214 143 163 97 98 103 104 151 90 96 98 14.5 214 145 165 97 98 103 105 152 90 97 98 14.5 217 145 165 97 98 103 105 152 90 97 99 15 222 149 169 98 99 104 105 154 90 97 99 15 222 149 169 98 99 104 105 154 90 97 99 15 222 149 169 98 99 104 105 155 90 98 99 15.5 226 153 173 98 99 104 105 156 90 98 100 16 230 158 177 99 100 105 106 156 90 98 100 16 230 158 177 99 100 105 106 159 91 98 100 16.5 234 162 181 100 100 105 106 160 91 99 101 16.75 236 165 183 100 100 105 106 160 91 99 101 16.75 244 172 189 101 101 105 106 160 91 99 101 16.75 244 172 189 101 101 105 106 160 91 199 101 17 239 167 185 100 100 105 106 161 91 99 101 16.75 244 172 189 101 101 105 106 169 92 100 102 17.5 244 178 193 101 102 106 108 168 93 102 103 18.249 178 193 101 102 106 108 168 93 102 103 18.55 256 189 199 102 102 107 108 172 93 103 105 19 258 192 200 102 102 107 108 179 94 105 106 19.75 265 200 206 103 103 108 109 177 94 105 106 19.75 272 270 201 103 103 108 109 177 94 105 106 19.75 272 270 201 103 103 108 109 177 94 105 106 19.75 272 270 201 103 103 108 109 177 94 105 106 19.75 272 270 271 103 103 103 108 109 177 94 105 106 19.75 272 270 271 103 103 103 108 109 177 94 105 106 19.75 272 270 271 104 105 109 110 182 95 106 107 20.75 272 206 210 104 104 104 109 110 182 95 106 107 20.75 272 206 210 104 105 109 111 183 96 106 108 109 177 94 105 106 20.25 272 206 210 104 105 109 111 185 96 107 108 109 21.55 285 287 210 214 105 106 110 111 1187 96 108 109 21.55 287 210 214 105 106 110 111 1187 96 108 109 21.55 287 210 214 105 106 110 111 111 113 194 98 109 111	12	184	127	146	95	96	101	101	139	88	93	95	98	110
12.75         195         132         152         96         97         101         102         144         88         94         96           13         198         134         154         96         97         102         103         145         89         94         96           13.5         204         137         157         97         98         102         103         147         89         95         97           13.75         208         139         160         97         98         102         104         149         89         95         97           14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         105         152         90         97         98           14.75         220         147         167         98         99         104         105         153         90         97         99           15.5         226         153         173         98         99         104         106	12.25	188	128	148	95	97	101	102	141	89	94	95	99	111
13         198         134         154         96         97         102         103         145         89         94         96           13.25         201         136         156         96         97         102         103         146         89         95         96           13.75         208         139         160         97         98         102         104         149         89         95         97           14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         104         150         89         96         98           14.5         217         145         165         97         98         103         105         153         90         97         98           14.5         217         145         166         98         99         104         105         155         90         97         99           15.25         224         152         171         98         99         104         106	12.5	191	130	150	95	97	101	102	142	88	94	96	99	111
13.25         201         136         156         96         97         102         103         146         89         95         96           13.75         204         137         157         97         98         102         104         149         89         95         97           14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         104         151         90         96         98           14.55         217         145         165         97         98         103         105         153         90         97         98           14.75         220         147         167         98         99         104         105         154         90         97         99           15.22         149         169         98         99         104         105         155         90         98         99           15.25         224         152         171         98         99         104         106         156	12.75	195	132	152	96	97	101	102	144	88	94	96	99	112
13.5         204         137         157         97         98         102         103         147         89         95         97           13.75         208         139         160         97         98         102         104         149         89         95         97           14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         105         152         90         97         98           14.75         220         147         167         98         99         103         105         152         90         97         99           15.25         224         152         169         98         99         104         105         154         90         97         99           15.75         226         153         173         98         99         104         106         156         90         98         100           15.75         228         156         175         98         99         104         106	13	198	134	154	96	97	102	103	145	89	94	96	100	113
13.75         208         139         160         97         98         102         104         149         89         95         97           14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         104         151         90         96         98           14.75         217         145         165         97         98         103         105         153         90         97         98           15.75         220         147         167         98         99         104         105         154         90         97         99           15.75         226         153         173         98         99         104         105         155         90         98         99           15.75         228         155         177         99         100         105         106         156         90         98         100           15.75         228         156         179         99         100         105	13.25	201	136	156	96	97	102	103	146	89	95	96	100	114
14         211         141         161         97         98         103         104         150         89         96         98           14.25         214         143         163         97         98         103         104         151         90         96         98           14.75         220         147         167         98         99         103         105         152         90         97         98           15         222         149         169         98         99         104         105         153         90         97         99           15.25         224         152         171         98         99         104         105         155         90         98         99           15.55         226         153         173         98         99         104         106         156         90         98         100           15.75         228         156         175         98         99         104         106         158         91         98         100           16.25         232         160         179         99         100         105         106							102	103					101	115
14.25       214       143       163       97       98       103       104       151       90       96       98         14.5       217       145       165       97       98       103       105       152       90       97       98         14.75       220       147       167       98       99       103       105       153       90       97       99         15       222       149       169       98       99       104       105       154       90       97       99         15.75       226       153       173       98       99       104       106       156       90       98       100         15.75       228       156       175       98       99       104       106       156       90       98       100         16.25       232       160       179       99       100       105       106       159       91       98       100         16.55       234       162       181       100       100       105       106       162       91       100       101         16.75       236       165														116
14.5       217       145       165       97       98       103       105       152       90       97       98         14.75       220       147       167       98       99       103       105       153       90       97       99         15.       222       149       169       98       99       104       105       154       90       97       99         15.5       226       153       173       98       99       104       106       156       90       98       190         15.75       228       156       175       98       99       104       106       158       91       98       100         16.25       232       160       179       99       100       105       106       159       91       98       100         16.75       236       165       183       100       100       105       106       160       91       99       101         16.75       236       165       183       100       100       105       106       161       91       90       101         16.75       236       165 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>116</th></t<>														116
14.75         220         147         167         98         99         103         105         153         90         97         99           15         222         149         169         98         99         104         105         154         90         97         99           15.25         224         152         171         98         99         104         105         155         90         98         99           15.5         226         153         173         98         99         104         106         156         90         98         100           16         230         158         177         99         100         105         106         159         91         98         100           16.25         232         160         179         99         100         105         106         160         91         99         101           16.75         236         165         183         100         100         105         106         162         91         100         101           16.75         236         167         185         100         100         105														118
15         222         149         169         98         99         104         105         154         90         97         99           15.25         224         152         171         98         99         104         105         155         90         98         99           15.75         228         156         175         98         99         104         106         156         90         98         100           16         230         158         177         99         100         105         106         159         91         98         100           16.25         232         160         179         99         100         105         106         160         91         99         101           16.5         234         162         181         100         100         105         106         161         91         99         101           16.75         236         165         183         100         100         105         106         162         91         100         101           17.25         242         170         187         100         100         105														118
15.25         224         152         171         98         99         104         105         155         90         98         99           15.5         226         153         173         98         99         104         106         156         90         98         100           15.75         228         156         175         98         99         104         106         158         91         98         100           16.25         232         160         179         99         100         105         106         160         91         99         101           16.5         234         162         181         100         100         105         106         161         91         99         101           16.75         236         165         183         100         100         105         106         162         91         100         101           16.75         236         165         183         100         100         105         106         162         91         100         101           17.25         242         170         187         100         101         105 <th></th> <th>119</th>														119
15.5         226         153         173         98         99         104         106         156         90         98         100           15.75         228         156         175         98         99         104         106         158         91         98         100           16         230         158         177         99         100         105         106         159         91         98         100           16.25         232         160         179         99         100         105         106         160         91         99         101           16.5         234         162         181         100         100         105         106         161         91         99         101           16.75         236         165         183         100         100         105         106         162         91         100         101           17.75         242         170         187         100         101         105         107         166         92         101         103           17.75         247         175         191         101         101         106 <th></th> <th>120</th>														120
15.75       228       156       175       98       99       104       106       158       91       98       100         16       230       158       177       99       100       105       106       159       91       98       100         16.25       232       160       179       99       100       105       106       160       91       99       101         16.5       234       162       181       100       100       105       106       161       91       99       101         16.75       236       165       183       100       100       105       106       162       91       100       101         17.25       242       170       187       100       101       105       107       163       92       100       102         17.5       244       172       188       101       101       106       107       166       92       101       103         17.75       247       175       191       101       101       106       108       167       92       101       103         18.25       252       182<													103	121
16       230       158       177       99       100       105       106       159       91       98       100         16.25       232       160       179       99       100       105       106       160       91       99       101         16.5       234       162       181       100       100       105       106       161       91       99       101         16.75       236       165       183       100       100       105       106       162       91       100       101         17       239       167       185       100       100       105       107       163       92       100       102         17.55       244       172       189       101       101       106       107       166       92       101       103         17.75       244       172       189       101       101       106       108       167       92       101       103         18.249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       19														121
16.25       232       160       179       99       100       105       106       160       91       99       101         16.5       234       162       181       100       100       105       106       161       91       99       101         16.75       236       165       183       100       100       105       106       162       91       100       101         17       239       167       185       100       100       105       107       163       92       100       102         17.25       242       170       187       100       101       105       107       165       92       100       102         17.5       244       172       189       101       101       106       107       166       92       101       103         17.75       247       175       191       101       101       106       108       167       92       101       103         18.25       252       182       195       101       102       106       108       168       93       102       104         18.5       254														122
16.5         234         162         181         100         100         105         106         161         91         99         101           16.75         236         165         183         100         100         105         106         162         91         100         101           17         239         167         185         100         100         105         107         163         92         100         102           17.25         242         170         187         100         101         105         107         165         92         100         102           17.5         244         172         189         101         101         106         107         166         92         101         103           18.249         178         193         101         102         106         108         168         93         102         103           18.25         252         182         195         101         102         106         108         168         93         102         104           18.5         254         185         197         102         102         107         <														123
16.75       236       165       183       100       100       105       106       162       91       100       101         17       239       167       185       100       100       105       107       163       92       100       102         17.25       242       170       187       100       101       105       107       165       92       100       102         17.5       244       172       189       101       101       106       107       166       92       101       103         18.75       247       175       191       101       101       106       108       167       92       101       103         18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.5       254       185       197       102       102       107       108       170       93       102       104         18.75       256 <td< th=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>105</td><td>124</td></td<>													105	124
17       239       167       185       100       100       105       107       163       92       100       102         17.25       242       170       187       100       101       105       107       165       92       100       102         17.5       244       172       189       101       101       106       107       166       92       101       103         17.75       247       175       191       101       101       106       108       167       92       101       103         18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.55       254       185       197       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       172       93       103       105         19.25       261 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>105</th><th>124</th></t<>													105	124
17.25       242       170       187       100       101       105       107       165       92       100       102         17.5       244       172       189       101       101       106       107       166       92       101       103         17.75       247       175       191       101       101       106       108       167       92       101       103         18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.5       254       185       197       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       172       93       103       105         19.25       261       195       202       102       103       107       109       173       93       103       105         19.5       263       <													106	125
17.5       244       172       189       101       101       106       107       166       92       101       103         17.75       247       175       191       101       101       106       108       167       92       101       103         18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.5       254       185       197       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       172       93       103       105         19.25       261       195       202       102       103       107       109       173       93       103       105         19.5       263       <													106	126
17.75       247       175       191       101       101       106       108       167       92       101       103         18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.5       254       185       197       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       172       93       103       105         19       258       192       200       102       107       109       173       93       103       105         19.25       261       195       202       102       103       107       109       174       94       104       105         19.5       263       197       204       103       103       108       109       177       94       104       106         19.75       265       200 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>127</th></td<>														127
18       249       178       193       101       102       106       108       168       93       102       103         18.25       252       182       195       101       102       106       108       170       93       102       104         18.5       254       185       197       102       102       107       108       170       93       102       104         18.75       256       189       199       102       102       107       108       172       93       103       105         19       258       192       200       102       107       109       173       93       103       105         19.25       261       195       202       102       107       109       174       94       104       105         19.5       263       197       204       103       103       108       109       175       94       104       106         19.75       265       200       206       103       103       108       109       177       94       105       106         20       267       202       207       10														128 129
18.25         252         182         195         101         102         106         108         170         93         102         104           18.5         254         185         197         102         102         107         108         170         93         102         104           18.75         256         189         199         102         102         107         108         172         93         103         105           19         258         192         200         102         107         109         173         93         103         105           19.25         261         195         202         102         107         109         174         94         104         105           19.5         263         197         204         103         103         108         109         175         94         104         106           19.75         265         200         206         103         103         108         109         177         94         105         106           20         267         202         207         103         103         108         110 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>130</th></td<>														130
18.5         254         185         197         102         102         107         108         170         93         102         104           18.75         256         189         199         102         102         107         108         172         93         103         105           19         258         192         200         102         102         107         109         173         93         103         105           19.25         261         195         202         102         103         107         109         174         94         104         105           19.5         263         197         204         103         103         108         109         175         94         104         106           19.75         265         200         206         103         103         108         109         177         94         105         106           20         267         202         207         103         103         108         110         178         94         105         106           20.25         270         204         209         103         104 <t></t>														131
18.75       256       189       199       102       102       107       108       172       93       103       105         19       258       192       200       102       102       107       109       173       93       103       105         19.25       261       195       202       102       103       107       109       174       94       104       105         19.5       263       197       204       103       103       108       109       175       94       104       106         19.75       265       200       206       103       103       108       109       177       94       105       106         20       267       202       207       103       103       108       110       178       94       105       106         20.25       270       204       209       103       104       108       110       178       94       105       106         20.5       272       206       210       104       104       108       110       180       95       105       107         20.5       272														131
19         258         192         200         102         102         107         109         173         93         103         105           19.25         261         195         202         102         103         107         109         174         94         104         105           19.5         263         197         204         103         103         108         109         175         94         104         106           19.75         265         200         206         103         103         108         109         177         94         105         106           20         267         202         207         103         103         108         110         178         94         105         106           20.25         270         204         209         103         104         108         110         180         95         105         107           20.5         272         206         210         104         104         109         110         182         95         106         107           20.5         274         207         211         104         105														132
19.25         261         195         202         102         103         107         109         174         94         104         105           19.5         263         197         204         103         103         108         109         175         94         104         106           19.75         265         200         206         103         103         108         109         177         94         105         106           20         267         202         207         103         103         108         110         178         94         105         106           20.25         270         204         209         103         104         108         110         180         95         105         107           20.5         272         206         210         104         104         109         110         182         95         106         107           20.5         274         207         211         104         105         109         111         183         96         106         108           21         276         209         213         104         105													110	133
19.5       263       197       204       103       103       108       109       175       94       104       106         19.75       265       200       206       103       103       108       109       177       94       105       106         20       267       202       207       103       103       108       110       178       94       105       106         20.25       270       204       209       103       104       108       110       180       95       105       107         20.5       272       206       210       104       104       109       110       182       95       106       107         20.5       274       207       211       104       105       109       111       183       96       106       108         21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       108       109         21.5       280       2													110	134
19.75       265       200       206       103       103       108       109       177       94       105       106         20       267       202       207       103       103       108       110       178       94       105       106         20.25       270       204       209       103       104       108       110       180       95       105       107         20.5       272       206       210       104       104       109       110       182       95       106       107         20.75       274       207       211       104       105       109       111       183       96       106       108         21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       108       109         21.5       280       212       215       105       106       110       111       187       96       108       109         21.75       282 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>135</th></td<>														135
20         267         202         207         103         103         108         110         178         94         105         106           20.25         270         204         209         103         104         108         110         180         95         105         107           20.5         272         206         210         104         104         109         110         182         95         106         107           20.75         274         207         211         104         105         109         111         183         96         106         108           21         276         209         213         104         105         109         111         185         96         107         108           21.25         278         210         214         105         106         110         111         187         96         108         109           21.5         280         212         215         105         106         110         111         188         97         108         109           21.75         282         214         217         106         107 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>136</th></th<>														136
20.25       270       204       209       103       104       108       110       180       95       105       107         20.5       272       206       210       104       104       109       110       182       95       106       107         20.75       274       207       211       104       105       109       111       183       96       106       108         21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       109       109         21.5       280       212       215       105       106       110       112       188       97       108       109         21.75       282       214       217       106       107       110       112       189       97       108       110         22       284       215       218       106       107       111       112       192       97       109       110         22.25       287 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>136</th></td<>														136
20.5       272       206       210       104       104       109       110       182       95       106       107         20.75       274       207       211       104       105       109       111       183       96       106       108         21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       108       109         21.5       280       212       215       105       106       110       112       188       97       108       109         21.75       282       214       217       106       107       110       112       190       97       108       110         22       284       215       218       106       107       111       112       192       97       109       110         22.25       287       216       219       107       107       111       113       194       98       109       111													112	137
20.75       274       207       211       104       105       109       111       183       96       106       108         21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       108       109         21.5       280       212       215       105       106       110       112       188       97       108       109         21.75       282       214       217       106       107       110       112       190       97       108       110         22       284       215       218       106       107       111       112       192       97       109       110         22.25       287       216       219       107       107       111       113       194       98       109       111														138
21       276       209       213       104       105       109       111       185       96       107       108         21.25       278       210       214       105       106       110       111       187       96       108       109         21.5       280       212       215       105       106       110       112       188       97       108       109         21.75       282       214       217       106       107       110       112       190       97       108       110         22       284       215       218       106       107       111       112       192       97       109       110         22.25       287       216       219       107       107       111       113       194       98       109       111														139
21.25     278     210     214     105     106     110     111     187     96     108     109       21.5     280     212     215     105     106     110     112     188     97     108     109       21.75     282     214     217     106     107     110     112     190     97     108     110       22     284     215     218     106     107     111     112     192     97     109     110       22.25     287     216     219     107     107     111     113     194     98     109     111	21	276	209		104	105	109	111		96	107	108	113	140
21.75     282     214     217     106     107     110     112     190     97     108     110       22     284     215     218     106     107     111     112     192     97     109     110       22.25     287     216     219     107     107     111     113     194     98     109     111	21.25	278	210	214	105	106	110	111	187	96	108	109	114	141
22         284         215         218         106         107         111         112         192         97         109         110           22.25         287         216         219         107         107         111         113         194         98         109         111	21.5	280	212	215	105	106	110	112	188	97	108	109	114	142
22         284         215         218         106         107         111         112         192         97         109         110           22.25         287         216         219         107         107         111         113         194         98         109         111			214	217	106	107	110	112	190	97	108	110	114	142
	22	284	215	218	106	107	111	112	192	97	109	110	115	143
<b>22.5</b> 289 218 220 107 108 111 113 195 98 110 111	22.25	287	216	219	107	107	111	113	194	98	109	111	115	144
	22.5	289	218	220	107	108	111	113	195	98	110	111	116	145
<b>22.75</b> 291 219 221 107 108 112 113 197 98 110 111	22.75	291	219	221	107	108	112	113	197	98	110	111	116	146
<b>23</b> 293 220 223 108 108 112 113 199 99 111 112	23	293	220	223	108	108	112	113	199	99	111	112	116	146
<b>23.25</b> 295 222 224 108 108 112 114 200 99 111 112	23.25	295	222	224	108	108	112	114	200	99	111	112	117	147
<b>23.5</b> 298 223 225 108 109 112 114 202 99 112 113	23.5	298	223	225	108	109	112	114	202	99	112	113	117	147
<b>23.75</b> 300 225 226 108 109 112 114 203 100 112 113	23.75	300	225	226	108	109	112	114	203	100	112	113	118	148



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		Pass/			Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
		Fail			Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail	Fail
Time		TC #28	TC#29	TC#30	TC#31	TC #32	TC#33	TC#34	TC #35	TC #36	TC#37	TC#38	TC #39	TC#40
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	24	302	226		109	109								148
	24.25	305	228	229	109	114							119	149
	24.5	307	229	230	110	125	113						119	149
	24.75	310			112	128							120	150
	25	311	231		113	131	114	116	212	102			120	151
	25.25	314			114	133							120	151
	25.5	316			114	133							121	152
	25.75	318		235	115	133			218				121	153
	26	320		235	116	134			220				122	153
	26.25	322			117	134			221				122	154
	26.5	324	239	237	117	135					118	118	123	155
	26.75	325	240	238	118	136	116	118			119	119	123	156
	27	327	242	239	118	136	116	118	226	105	119	120	123	156
	27.25	329	243	240	119	138	117	118	228	105	120	121	124	157
	27.5	329	244	240	120	139	117	119	229	106	120	121	124	158
	27.75	330	246	241	121	139	118	119	231	106		122	125	158
	28	329	247	242	121	139	118	119	233	107	121	122	125	159
	28.25	329	248	243	122	140	118	120	234	107	121	123	125	160
	28.5	329	250	244	123	140	118	120	236	107	122	125	126	160
	28.75	325	251	245	123	141	119	121	237	108	122	126	126	161
	29	318	253	247	123	141	119	121	238	108	123	127	127	161
	29.25	307	254	248	124	142	119	121	240	109	123	128	127	162
	29.5	301	255	249	125	142	120	121	241	109	124	130	128	163
	29.75	295	257	250	125	142	120	122	242	110	124	131	128	164
	30	294	258	251	126	142	120	122	244	110	125	132	129	164
Max T	emn	330			126	142	120	122	244	110	125	132	129	164
Max A		1000			1000	1000	1000						1000	1000



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										Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
										Fail	Fail	Fail	Fail	Fail	Fail
Time			TC#42											TC #53	200000000000000000000000000000000000000
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	0	117	113	134	119	124	148	161	145	85	86	87	86	86	86
	0.25	711		552		426	540		570	85	86				87
	0.5	963		759		666	822		833	86	86	88			87
	0.75	1124		808		770	962		981	86	86	87	86		87
	1	1183		849		812	1001		1005	86	86	87	86		88
	1.25	1229		894		864	1027		1058	85	86	87			88
	1.5	1278	1004	926	821	889	1041	1072	1098	85	86	87	86	86	89
	1.75	1327	1062	976	863	919	1147	1180	1185	85	86	88	86	86	89
	2	1294	1096	1011	905	943	1160	1146	1185	86	86	87	86	86	89
	2.25	1303	1138	1041	925	962	1127	1144	1186	86	86	87	86	86	89
	2.5	1330	1158	1055	945	980	1124	1154	1163	86	86	87	86	86	88
	2.75	1355	1168	1080	958	991	1135	1158	1181	86	86	89	86	86	88
	3	1416	1183	1082	967	1000	1129	1157	1199	86	86	88	86	86	89
	3.25	1395	1190	1099	988	1015	1141	1159	1206	86	86	87	86	86	88
	3.5	1411		1127	1006	1025	1156		1214	86	86	87	86		88
	3.75	1370		1125		1040	1179		1208	86	87	87	86		88
	4	1443		1136		1050	1182		1229	86	86	87			88
	4.25	1421		1152		1057	1185		1240	86	86	87	86		87
	4.5	1474		1159		1071	1202		1251	86	86	87	86		87
	4.75	1440		1177	1061	1082	1221		1266	86	86	87	86		87
	5	1431		1182		1096	1233		1270	86	86	87	86		88
	5.25	1430		1200		1105	1264		1275	86	86	87	86		89
	5.5	1403 1455		1208		1128	1274		1288	86	86	87	87	86	88 88
	5.75 6	1408		1227 1258	1107 1121	1134 1160	1285 1307		1286 1338	86 86	86 86	87 87	87 87	86 86	88
	6.25	1395		1255		1175	1325		1321	86	86	87	87		88
	6.5	1415		1262		1178	1324		1313	86	86	87	87	87	88
	6.75	1444		1250		1169	1320		1316	86	86	87	87		87
	7	1456		1248		1169	1317		1328	86	86	87	87	87	88
	7.25	1432		1259		1173	1301		1343	86	86	87			88
	7.5	1448		1263	1145	1174	1305		1343	86	86	87	87	87	88
	7.75	1500		1268		1184	1318		1348	86	87	87	87	87	88
	8	1436	1418	1275	1159	1190	1320	1308	1332	86	87	87	87	87	87
	8.25	1441	1433	1267	1159	1194	1312	1301	1327	86	87	87	87	87	87
	8.5	1469	1435	1273	1163	1198	1321	1306	1331	86	87	87	87	87	87
	8.75	1437	1426	1275	1167	1198	1320	1322	1340	86	87	87	87	87	87
	9	1468	1427	1281	1171	1201	1324	1321	1347	86	87	87	87	87	87
	9.25	1455	1426	1273	1166	1200	1328	1321	1341	86	87	87	87	87	87
	9.5	1476	1431	1277	1170	1202	1328	1332	1355	86	87	87	87	87	87
	9.75	1472	1434	1284		1211	1339		1361	86	87	88	87	87	87
	10	1475		1279		1209	1326		1367	86	87	88		87	87
	10.25	1463		1281		1214	1342		1352	86	87	88			87
	10.5	1439		1298		1228	1360		1363	86	87	88		87	87
	10.75	1540		1298		1222	1355		1382	87	87	88		87	87
	11	1502		1303		1227	1369		1368	87	87	88		87	87
	11.25	1571		1311	1219	1226	1367		1374	87	87	88			87
	11.5	1535		1316		1230	1387		1355	87	88	88		87	87
	11.75	1540	1472	1318	1220	1237	1369	1373	1383	87	88	88	87	87	88



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										Pass/	Pass/	Pass/	Pass/	Pass/	Pass/
										Fail	Fail	Fail	Fail	Fail	Fail
Time					TC#44										
(min)		(°F)	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)							
	12	1470	1488	1315	1221	1242	1380	1363	1409	87	87	88	87	87	87
	12.25	1508	1510	1322		1242	1385	1360	1380	87		88	88		87
	12.5	1498	1522	1327	1228	1246	1382	1370	1389	87	88				88
	12.75	1470	1513	1317		1248	1386	1351	1378	87			88	87	88
	13	1487	1528	1322		1253	1399	1348	1373	87	88		88	88	88
	13.25	1482	1493	1330		1256	1388	1371	1387	87			88	88	88
	13.5	1492	1499	1332		1260	1385	1390	1397	87	88		88	88	88
	13.75	1479	1498	1341	1236	1260	1392	1392	1408	87	88		88	88	88
	14	1495	1488	1344		1265	1395	1375	1390	87	88	88	88	88	88
	14.25	1530	1499	1339	1236	1265	1382	1383	1423	87	88	88	88	88	88
	14.5	1528	1521	1336	1238	1264	1380	1382	1412	87	88	88	88	88	89
	14.75	1536	1511	1332	1245	1263	1381	1375	1406	87	88	88	88	88	89
	15	1505	1523	1348	1247	1269	1406	1380	1409	87	88	89	88	89	89
	15.25	1541	1599	1388	1283	1315	1456	1436	1461	87	88	89	88	89	89
	15.5	1566	1605	1403	1290	1323	1469	1470	1483	88	88	89	88	89	89
	15.75	1552	1624	1414	1304	1332	1481	1472	1494	88	88	89	89	89	89
	16	1540	1633	1439	1312	1343	1520	1483	1489	88	89	89	89	89	89
	16.25	1564	1638	1438	1314	1349	1515	1476	1497	88	88	89	89	89	89
	16.5	1545	1650	1435		1351	1506	1480	1511	88		89	89	89	89
	16.75	1530	1629	1439	1320	1348	1504	1498	1509	88	89	89	89	89	89
	17	1560	1647	1444		1353	1529	1508	1502	88	89	89	89	89	89
	17.25	1560	1660	1457		1362	1511	1491	1512	88		89	89	89	90
	17.5	1565	1663	1457		1363	1533	1498	1502	88		89	89	89	90
	17.75	1542	1655	1460		1371	1530	1498	1516	88		89	89	90	90
	18	1564	1673	1470		1378	1552	1499	1524	88	89	89	90	90	90
	18.25	1557	1667	1484		1389	1556	1525	1529	88		90	89	90	90
	18.5	1568	1658	1475	1352	1384	1558	1529	1536	88	90		89	90	90
	18.75	1547	1681	1463		1376	1548	1511	1517	88	90		89	90	90
	19	1643	1639	1472		1379	1554	1526	1530	88			89	91	90
	19.25 19.5	1627 1715	1656 1578	1472 1469	1367 1375	1384 1367	1575 1574	1530 1531	1532 1530	88 88	91 90		89 89	91 91	90 90
	19.75	1684	1580	1481	1386	1373	1574	1547	1536	89	90		89	90	90
	20	1671	1572	1474	1381	1377	1613	1549	1533	89	90		90	91	90
	20.25	1615	1670	1474		1386	1592	1543	1547	89	91		90	91	90
	20.5	1592	1667	1484	1375	1394	1569	1531	1544	89	91	90	90	91	90
	20.75	1580	1682	1485		1392	1604	1549	1554	89	92		90	91	90
	21	1638	1632	1483		1392	1592	1552	1552	89	92		90	91	90
	21.25	1611	1665	1503		1401	1599	1549	1556	89	92		91	92	91
	21.5	1665	1670	1491	1385	1394	1589	1536	1566	89	92		91		91
	21.75	1625	1651	1485		1400	1597	1546	1575	90			90	93	91
	22	1593	1673	1503		1409	1603	1552	1567	90			91	93	91
	22.25	1642	1621	1477		1396	1597	1541	1591	90			91	94	92
	22.5	1606	1660	1498		1403	1599	1545	1594	90	94	90	91	94	91
	22.75	1675	1638	1494	1398	1403	1605	1562	1573	90	93	90	91	92	91
	23	1603	1689	1508	1397	1411	1605	1561	1578	90	93	90	91	92	91
	23.25	1598	1679	1496	1395	1412	1592	1568	1598	90	94	90	91	94	91
	23.5	1591	1683	1495	1400	1411	1608	1562	1597	90	93	90	91	93	92
	23.75	1653	1620	1499	1401	1404	1598	1544	1610	90	92	90	91	92	92



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Time (min)		TC #41 (°F)	TC #42 (°F)	TC #43 (°F)	TC #44 (°F)	TC #45 (°F)	TC #46 (°F)	TC #47 (°F)	TC #48 (°F)	Pass/ Fail TC #49 (°F)	Pass/ Fail TC #50 (°F)	Pass/ Fail TC #51 (°F)	Pass/ Fail TC #52 (°F)	Pass/ Fail TC #53 (°F)	Pass/ Fail TC #54 (°F)
	24	1727	1631	1497	1409	1407	1610	1574	1583	90	92	90	91	92	92
	24.25	1653	1621	1495	1410	1409	1630	1575	1569	90	92	90	91	92	91
	24.5	1718	1641	1500	1412	1409	1597	1569	1589	90	93	90	91	92	91
	24.75	1732	1606	1503	1416	1410	1612	1573	1604	89	96	91	90	93	92
	25	1688	1598	1506	1418	1411	1645	1581	1595	89	95	90	90	94	91
	25.25	1775	1657	1535	1444	1432	1702	1630	1604	90	93	91	90	94	91
	25.5	1652	1731	1559	1446	1455	1711	1640	1630	90	92	91	92	93	91
	25.75	1674	1660	1540	1447	1451	1701	1645	1650	91	93	91	92	92	91
	26	1672	1721	1557	1450	1460	1685	1635	1660	90	99	91	91	94	92
	26.25	1662	1712	1561	1456	1460	1699	1638	1651	91	93	91	91	93	91
	26.5	1694	1652	1544	1456	1453	1693	1652	1650	90	93	91	92	92	92
	26.75	1768	1610	1554	1462	1450	1673	1639	1679	91	92	91	92	92	92
	27	1780	1606		1464	1452	1715	1689	1691	91	92		92		92
	27.25	1792	1645	1548	1467	1456	1720	1671	1655	91	92				93
	27.5	1819	1601			1457	1724	1687	1686	91	93				
	27.75	1668	1723			1465	1694	1648	1649	90	93				
	28	1673	1733	1589	1473	1483	1685	1659	1668	91	92				
	28.25	1692	1721	1573	1475	1477	1712	1666	1667	91	93		93		92
	28.5	1672	1742		1474	1487	1695	1658	1665	94	92		93		92
	28.75	1665	1761		1477	1496	1732	1677	1675	92	93		93		92
	29	1699	1733		1476	1487	1694	1641	1656	92	94				
	29.25	1702	1726		1479	1484	1722	1653	1651	92	94				
	29.5	1675	1710		1481	1491	1736	1680	1675	91	100		93		
	29.75	1728	1729		1488	1488	1724	1672	1676	92	95		93		
	30	1692	1755	1588	1484	1499	1719	1693	1683	92	94	92	93	95	94
Max T	emp									94	100	93	93	98	94
Max A	llw									585	586	587	586	586	586



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#### **SECTION 15**

#### **DRAWINGS**

The "As-Built" drawings for Seohan Antamin Co., which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

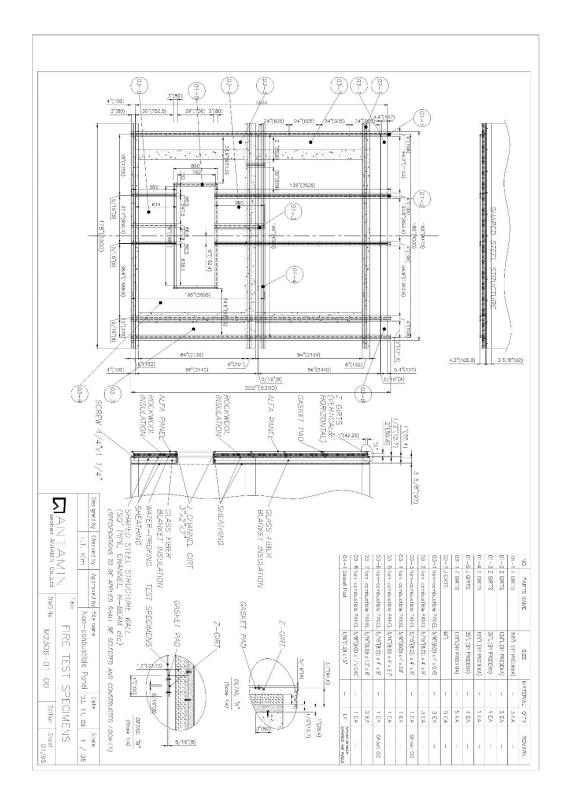
**NOTE** – The Z-girts and J-Channel used were only 2-in. deep thus no significant airspace was created behind panels.

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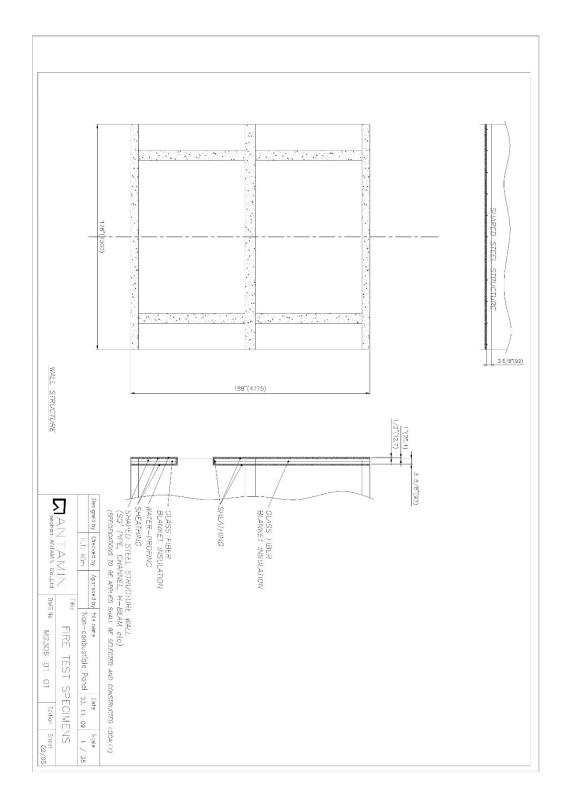
Report No.: G105484501SAT-003 R0





# **TEST REPORT FOR SEOHAN ANTAMIN CO., LTD**

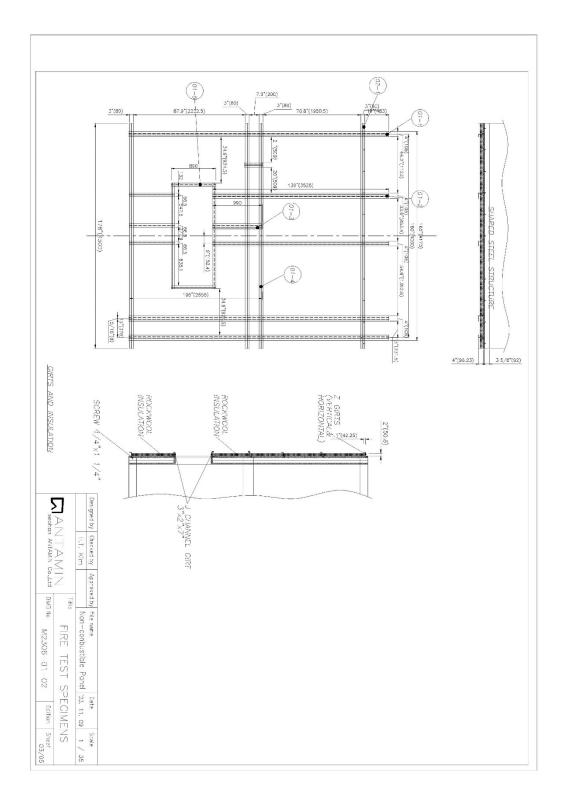
Report No.: G105484501SAT-003 R0





## TEST REPORT FOR SEOHAN ANTAMIN CO., LTD

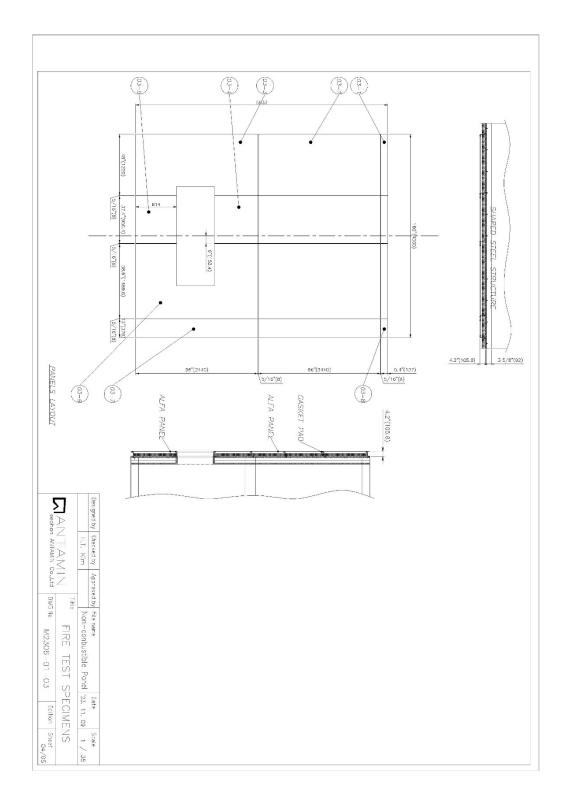
Report No.: G105484501SAT-003 R0





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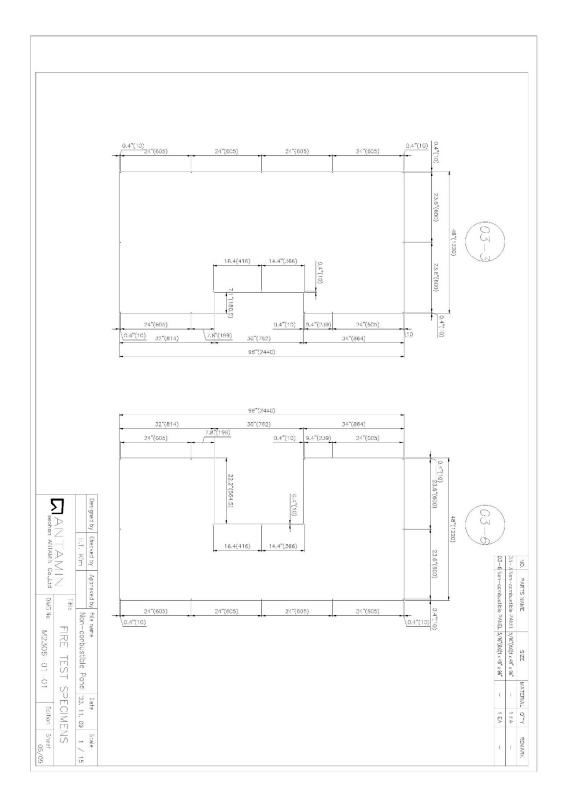


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#### **SECTION 16**

#### **REVISION LOG**

REVISION #	DATE	SECTION	REVISION
0	08/15/24	N/A	Original Report Issue