

Engineering Specification	Substrate	Salt Spray Hours
<b>AM General</b>		
TT-C-490E	CRS, HRS	1000
<b>AMERICAN AXLE</b>		
MS-4005	CRS, HRS, HDG, HIA, AL	168
<b>ARVIN MERITOR</b>		
P25	CRS, HRS, HDG, HIA, AL	200
<b>BEHR</b>		
M-1153	CRS, HRS, HDG, HIA, AL	See Spec
<b>BENDIX</b>		
BW-329-P	CRS, HRS, HDG, HIA, AL	300
Y120536 (BRAKE SHOE)	CRS, HRS, HDG, HIA, AL	
Y120536 (DUST SHIELD)	CRS, HRS, HDG, HIA, AL	
<b>BMW</b>		
BMW S 600 87.0 LA SW 1		NA
GS 90011 LA SW 1	CRS, HRS, HDG, HIA, AL	NA
GS 90011 LA SW 2	CRS, HRS, HDG, HIA, AL	NA
GS 90011 LA SW 3	CRS, HRS, HDG, HIA, AL	NA
<b>BORG WARNER COOLING</b>		
01ES00002	CRS, HRS, HDG, HIA, AL	Per print or 250
<b>BOSCH</b>		
6 002 674 003	CRA, HRS, HIA	480
ES-2531	CRA, HRS	1000
<b>BROSE</b>		
562161-106	CRS, HRS, HDG, HIA, AL	
562162-103/1002	CRS, HRS, HDG, HIA, AL	96
<b>CATERPILLAR</b>		
1E1267	CRS, HRS, HDG, HIA, AL	96
<b>CLUB CAR, CLASS II</b>		
102466101	CRS, HRS, HIA	>300
<b>CONTINENTAL TEVES</b>		
ATE N 106 36.31 (Ob No. 301/4)	CRS, HRS	NA
ATE N 550 60.01 (Type of Finish L7)	CRS, HRS	600
<b>CUMMINGS</b>		
21073	CRS, HRS, HIA	750
<b>DANA</b>		
M-2008	CRS, HRS, HIA	500
SHAES176		168
<b>DAYCO</b>		
DES-F004 (Except 2.3 & 2.4)	CRS, HRS, HDG, HIA, AL	336
<b>DELBAR</b>		
DPS 78	CRS, HRS, HDG, HIA, AL	See Spec
<b>DELPHI</b>		
DCM 5188	CRS, HRS, HDG, HIA, AL	336
DM-6081 (See DX650059)	CRS, HRS, HDG, HIA, AL	168
DX 550043	CRS, HRS, HDG, HIA, AL	NA

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DX650059	CRS, HRS, HDG, HIA, AL	See Spec
<b>DENSO</b>		
D 1N 02 B1-TFE13 (DDS 2346)	CRS, HRS, HIA	840
D 1N 02 B1-TFE13 (DDS 6700-001)	CRS, HRS, HIA	750
D 1N 02 B1-TFE21 (DDS 6700-001)	CRS, HRS, HIA	384
D 1N 02 B1-TFE23 (DDS 2346)	CRS, HRS, HIA	480
<b>DEXTER AXLE</b>		
ES-1039	CRS, HRS, HIA	500
<b>DIAMLER</b>		
49-00091	CRS, HRS, HDG, HIA, AL	
<b>EATON</b>		
ES-560C		500
TES 005		96
<b>FCA</b>		
CS 9003 (Meets environmental requirements)		NA
MS.90089 (D1A)	CRS, HRS, HDG, HIA, AL	
MS.90112	CRS, HRS, HDG, HIA, AL	
MS.90124 (See PS7232)	CRS, HRS, HDG, HIA, AL	
MS-PB45-1	CRS, HRS, HDG, HIA, AL	360
MS-PB45-2	CRS, HRS, HDG, HIA, AL	360
MS-PB60-2C	CRS, HRS, HDG, HIA, AL	240, 360
PF-7051	CRS, HRS, HDG, HIA, AL	0
PS-508		0
PS-7232		0
<b>FIAMM</b>		
FI-1000	CRS, HRS, HDG, HIA, AL	480
RD-ST00050	ZC PL	1000
RD-ST00051	CRS	1000
<b>FORD</b>		
ESA-M2P15-A		
ESA-M64J19-B1 to B4	CRS, HRS	1000
ESB-M2P129-B	CRS, HRS	500
ESB-M2P28-B	CRS, HRS, HDG, HIA, AL	96 parts 168 panels
ESB-M2P29-A	CRS, HRS, HDG, HIA, AL	120 panels 48 parts
ESB-M2P29-B	CRS, HRS, HDG, HIA, AL	48 parts 120 panels
ESB-M2P30-A	CRS, HRS, HDG, HIA, AL	96 panels 24 parts
ESB-M2P30-B	CRS, HRS, HDG, HIA, AL	24 parts 96 panels
ESB-M2P6-C	CRS, HRS, HIA	500
ESB-M64J12-B		240
ESB-M64J19-A1 to A4		360
ESE-M2P128-A		168
ESN-M2P86-A	CRS, HRS, HDG, HIA, AL	96
WSB-M64J28-A1 to A4	CRS, HRS, HDG, HIA, AL	500
WSB-M64J36-A1 to A4		500
WSK-M2P149-A1	CRS, HRS, HDG, HIA, AL	240
WSK-M2P149-A2	CRS, HRS, HIA	240 - 480
WSK-M2P151-A1 to A3 (Excluding 3.5.4)	CRS, HRS, HDG, HIA, AL	24-72
WSK-M2P152-A1 (Excl. top coat, powder)	CRS, HRS, HDG, HIA, AL	96
WSK-M2P152-A2 (Excl. top coat, powder)	CRS, HRS, HDG, HIA, AL	120
WSK-M2P152-A3 (Excl. top coat, powder)	CRS, HRS, HDG, HIA, AL	240

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WSK-M2P153-A1 to A5	CRS, HRS, HDG, HIA, AL	16 - 480
WSK-M2P153-A6	CRS, HRS, HIA	16 - 480
WSK-M2P157-A1 to A3	CRS, HRS, HDG, HIA, AL	96
WSS-M2P177-A1 to A2	CRS, HRS, HDG, HIA, AL	480
WSS-M2P177-A3 to A5	CRS, HRS, HIA	480
WSS-M2P177-B1 to B2	CRS, HRS, HDG, HIA, AL	NA - Cycle
WSS-M2P177-C1 to C3	CRS, HRS, HDG, HIA, AL	NA - Cycle
WSS-M2P185 A1 TO A2	CRS, HRS, HIA	480
WSS-M2P185 A3 TO A4	CRS, HRS, HDG, HIA, AL	96
WSS-M64J39-A1 to A5 (Satellite line)	CRS, HRS, HDG, HIA, AL	960
WSS-M64J40 (Exclude 3.7.7 Edge Corr.)		960

**FREIGHTLINER**

49-00023 (101)		500
49-00023 (102)		240
49-00023 (103)		96
49-00099-004		500

**FUJI**

TS430-7-89	CRS, HRS, HDG, HIA, AL	NA
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**FUTURIS**

FIS-1062	CRS, HRS, HDG, HIA, AL	720
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**GM**

GM 4350-M X.XXX	CRS, HRS, HDG, HIA, AL	336
GM 9984017	CRS, HRS, HDG, HIA, AL	0
GM 9984090 (ZN Phos immersion)	CRS, HRS, HDG, HIA, AL	0
GM 9984120	CRS, HRS, HDG, HIA, AL	168
GM 9984120 / 4350-M C-0	CRS, HRS, HDG, HIA, AL	336
GM 9984120 / 4350-M A-168	CRS, HRS, HDG, HIA, AL	168
GM 9984120 / 4350-M A-336	CRS, HRS, HDG, HIA, AL	336
GM 9984120 / 4350-M A-96	CRS, HRS, HDG, HIA, AL	96
GM 9984120 / 4350-M C-24	CRS, HRS, HDG, HIA, AL	24
GM 9984123 (ZN Phos)	CRS, HRS, HDG, HIA, AL	NA
GM 9986165		1000
GMW 14669	CRS, HRS, HDG, HIA, AL	24
GMW 14669 (B3)	CRS, HRS, HDG, HIA, AL	
GMW 14669 B3	CRS, HRS, HDG, HIA, AL	336
GMW 14671-A	CRS, HRS, HDG, HIA	336
GMW 14671-B	CRS, HRS, HDG, HIA	336
GMW 14671-F (See Print for Spec U/B, U/H)	CRS, HRS, HDG, HIA, AL	336
GMW 17698 EXTERIOR	CRS, HRS, HDG, HIA, AL	
GMW 17698 INTERIOR	CRS, HRS, HDG, HIA, AL	
GMW 17699 (Zinc Phos)	CRS, HRS, HDG, HIA, AL	
GMW3059 (Meets environmental requirements)		NA

**GORDON MFG**

4101	CRS, HRS, HDG, HIA, AL	96
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**HARLEY DAVIDSON**

ES 805-43101 - A1	CRS, HRS, HDG, HIA, AL	168
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**HAWORTH**

ES 1038	CRS, HRS, HDG, HIA, AL	72
ES-1039		72

**HERMAN MILLER**

<b>Engineering Specification</b>	<b>Substrate</b>	<b>Salt Spray Hours</b>
PR-132	CRS, HRS, HDG, HIA, AL	0
SI-287	CRS, HRS, HIA	150
<b>HINO</b>		
HS K 1010	CRS, HRS, HDG, HIA, AL	See Spec
HTSH3128	CRS, HRS, HIA	96-840
<b>HONDA</b>		
5100 Z SGO-000	HIA	480
5100 Z-TR0-6000 (Galvaneal/Galvanize Only)	HIA	960
HES D 2016-06 Grade 1	CRS, HRS, HDG, HIA, AL	24
HES D 2016-06 Grade 2	CRS, HRS, HDG, HIA, AL	48
HES D 2021-07 Grade 1	CRS, HRS, HDG, HIA, AL	24/48
HES D 2021-07 Grade 2	CRS, HRS, HDG, HIA, AL	72/120
HES D 2021-07 Grade 3	CRS, HRS, HDG, HIA, AL	120/240
HES D 2021-07 Grade 4	CRS, HRS, HDG, HIA, AL	240/480
HES D 2021-07 Grade 5	CRS, HRS, HIA	600/1000
HES D2028-07 Grade 1	CRS, HRS, HDG, HIA, AL	48
<b>INALPHA</b>		
IES 06.017-096	CRS, HRS, HDG, HIA, AL	96-480
IES 06.017-144	CRS, HRS, HDG, HIA, AL	96-480
IES 06.017-240	CRS, HRS, HDG, HIA, AL	96-480
IES 06.017-408	CRS, HRS, HIA	96-480
IES.20.004 Gloss 0, 3; Exc SO2, Outdoor, Edg Corr	CRS, HRS, HDG, HIA, AL	See Spec
<b>INTERNATIONAL/NAVISTAR</b>		
CEMS G-5, Part I, Sec. A Class A Primer	CRS, HRS, HIA	500
CEMS G-5, Part I, Sec. A Class B Primer	CRS, HRS, HIA	250
CEMS G-5, Part I, Sec. A Class D Primer	CRS, HRS, HIA	NA
CEMS G-5, Part I, Sec. A Class E Primer	CRS, HRS, HIA	250
CEMS G-5, Part I, Sec. A Class F Primer	CRS, HRS, HIA	100
CEMS G-5, Part I, Sec. A Class G Primer	CRS, HRS, HIA	100
EMS G05-5001	CRS, HRS, HIA	100
TMS-9009	CRS, HRS, HIA	250
<b>ISUZU</b>		
ISC-B51-001C	CRS, HRS, HDG, HIA, AL	See Spec
<b>JAGEMANN</b>		
5B011	CRS, HRS, HDG, HIA, AL	168
<b>JCI</b>		
MEPM-PLUS-SP-04-07-05-E	CRS, HRS, HDG, HIA, AL	0
<b>KEY SAFETY SYSTEMS</b>		
E50266	CRS, HRS, HDG, HIA, AL	72
<b>LUCAS/VARITY</b>		
S-121934 01 B	CRS, HRS, HDG, HIA, AL	NA
<b>MACK TRUCK</b>		
617 GS 133	CRS,HRS, HIA	480
<b>MAGNA - DONNELLY</b>		
PD-1225	CRS, HRS, HDG, HIA, AL	NA
<b>MAZDA</b>		
MES MN 600 TXX CO1-CO8 (CRS)	CRS	120
MES MN 600 TXX CO41-CO6 (Galvanize)	HDG	72
MES MN 600 TXX-CO1-CO6 (Aluminum)	ALUMINUM	12

**Engineering Specification****Substrate****Salt Spray Hours****MERCEDES-BENZ**

DBL 7381-00/10/20/22 (Excluding 4.24)	CRS, HRS, HDG, HIA, AL	504
DBL 7382	CRS, HRS, HDG, HIA, AL	
DBL 7390-50	CRS, HRS, HDG, HIA, AL	504
DBL 7391-04/54, 60	CRS, HRS, HDG, HIA, AL	240-504
DBL 7392-50	CRS, HRS, HDG, HIA, AL	72

**MILITARY**

A-A52474A	CRS, HRS	1000
MIL-P-53084 (ME) (Black only)	CRS, HRS	1000

**MILWAUKEE WIRE PRODUCTS**

457-0002-1	CRS, HRS, HDG, HIA, AL	500
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**MISHAWAKA**

MES-722	CRS, HRS	240
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**MITSUBISHI**

ES-X 71221		720
ES-X71224		0

**MODINE APPLIED THERMAL INN**

CP-6	CRS, HRS, HIA	500
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**NISSAN**

54400-NDS00 S-I	CRS, HRS	800
NES-M 5050	CRS, HRS, HIA	NA
NES-M 5083 (CED Only)	CRS, HRS, HIA	800

**PACCAR**

CMT-0030 (Aluminum Sheet)	ALUMINUM	CASS
CMT-0030 (Hot rolled pickle & oil)	HRS	168
CMT-0048 (Aluminum Sheet)	ALUMINUM	CASS
CMT-0048 (Hot rolled pickle & oil)	HRS	336
CMT-0048 TYPE II (CRS)	CRS	336
CS-0031 (CRS)	CRS	336
DAF LAK 60009 (Excluding 4.3.1)	HRS	240

**Schafer Driveline**

FES-FINISH-ECOAT1	CRS, HRS, HDG, HIA, AL	500
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**SIEMENS**

MPS-5062	CRS, HRS, HDG, HIA, AL	240
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**TENNECO**

PS-152.04	CRS, HRS, HIA	400
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**TESLA**

TM-0023F-P-EC		500
TM-0023F-P-EC (Exclude Sec. 3.6.3)	ALL	
TM-5001	CRS, HRS, HDG, HIA, AL	96
TM-5001 GRADE 10, 11	CRS, HRS, HDG, HIA, AL	96
TM-5001 GRADE 20, 30	CRS, HRS, HDG, HIA, AL	

**TOYOTA**

TIS 01206-00050-A, TIS 1206-01003-A	CRS, HRS, HIA	720
TIS 01206-00051-A, TIS 01206-01004-A	CRS, HRS	960
TIS 01206-00056	CRS, HRS, HIA	840
TIS 01206-00343	CRS, HRS, HIA	720
TIS 01206-00344	CRS, HRS, HDG, HIA, AL	960

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TIS 01206-01009	CRS, HRS, HIA	840
TIS 01248-00092	CRS, HRS, HDG, HIA, AL	See Spec
TIS 01277-00065 (Stainless Steel Only)	SS	840
TSH 2354 G (CRS)	CRS	840
TSH 2354 G (Galvneal)	HIA	480
TSH 3600 G	Phosphate Spec	0
TSZ0001G (Meet environmental requirements)		NA
<b>TRELLEBORG</b>		
TES-5820	CRS, HRS, HDG, HIA, AL	240
<b>TRW</b>		
045416	CRS, HRS, HDG, HIA, AL	360
045635	CRS, HRS, HDG, HIA, AL	500
045638	CRS, HRS, HDG, HIA, AL	See Spec
S-121934 01 C	CRS, HRS	
TRW MS 00019	CRS, HRS, HDG, HIA, AL	48
TRW MS 00081	CRS, HRS, HDG, HIA, AL	48
TS2-24-015	CRS, HRS, HDG, HIA, AL	500
<b>VIKING</b>		
SPF02-W01	CRS, HRS, HDG, HIA, AL	0
<b>VOLKSWAGEN</b>		
TL 227	HIA, HDG	0
TL 260	CRS, HRS, HDG, HIA, AL	240
<b>VOLVO</b>		
STD 121-0001 (Y600-1, Y600-2)		
VCS 5751, 59 (A1, B1, C1, D1, E1)	CRS, HRS, HDG, HIA, AL	
VSC 5751, 59 (Class A1, B1, C1, D1, E1)	CRS, HRS, HDG, HIA, AL	
<b>WARNER ELECTRIC</b>		
MP-347 (Section 5 & 6 only)	CRS, HRS, HDG, HIA, AL	168
<b>WHIRLPOOL</b>		
WM-3561- A6	CRS, HRS, HIA	500
<b>YH AMERICA</b>		
YES053		See Spec

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**Approval: Tim Stitt**

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