

## Aerospace Sealants

### Groupings

1	Jointing Compounds		6	Windscreen
2	Adhesion Promoters		7	Aerodynamic and Weatherproofing
3	Corrosion Inhibiting		8	Firewall
4	Conductive and Insulating		9	Access Door
5	Fuel tank			

## 1. Jointing Compounds

Product	Use / Description	Operational Temperature Range	Shelf Life (Months)	Approvals	LINK
CA1000	Non-curing, Non-chromate corrosion inhibitive jointing compound	-54 to 116°C (135°C max)	12	SP-J-513-B-0313	<a href="#"><u>CA1000</u></a>
JC5A	Non-curing, corrosion inhibitive jointing compound	-54 to 116°C (135°C max)	30	DTD900/4488A, ABP 4-5144	<a href="#"><u>JC5A</u></a>
JC11 Celloseal QH	Chromate containing jointing compound	-54 to 116°C (135°C max)	24	DTD900/4549	<a href="#"><u>JC11</u></a>
Mastinox 6856H (1914/3600)	Non-curing jointing compound	115 to 120°C max	24	Dassault Aerospatiale	<a href="#"><u>Mastinox 6856H</u></a> <a href="#"><u>6856H-FRA</u></a>
Mastinox 6856K (1913/3600)	Non-curing jointing compound	150 to 160°C max	24	BMS 3-27, DTD900/4971, ABP 4-5145	<a href="#"><u>Mastinox 6856K</u></a> <a href="#"><u>6856K-FRA</u></a>
Mastinox C627B (2047/3600)	Air curing jointing compound	100 to 120°C max	24	MIL-C-11796	<a href="#"><u>Mastinox C627B</u></a> <a href="#"><u>2047/3600FR A</u></a>
Mastinox D40 (1640/3600)	Non-curing jointing compound	200°C max	48	Dassault Aerospatiale	<a href="#"><u>Mastinox D40</u></a> <a href="#"><u>1640/3600FR A</u></a>

## 2. Adhesion Promoters

Product	Solvent	Use / Description	Shelf Life (Months)	LINK
PR148	Mixed Non-chlorinated	Surface Cleaner and adhesion promoter to enhance the adhesion of polysulphide sealants to metals and solvent resistant coatings. Also suitable for use on PMMA and PC surfaces.	6	<a href="#"><u>PR148</u></a>
PR1523M	Solvent Free	For use with polyurethane potting compounds to enhance adhesion to neoprene.	6	<a href="#"><u>PR1523M</u></a>
PR1735	Alcohol	Surface cleaner and adhesion promoter to promote adhesion of Viton rubber based sealants and coatings to metallic and coated surfaces.	6	<a href="#"><u>PR1735</u></a>
PR184	Ester-based	Used as a surface cleaner and adhesion promoter, contains red dye to indicate usage area. Suitable for use on metals and solvent resistant coatings	6	<a href="#"><u>PR184</u></a>
PR187	Etheric	Main use in repair applications to promote adhesion between PR1828 and Manganese or Dichromate cured polysulphide sealants. Also with PR1829 to promote adhesion to PC and PES substrates.		<a href="#"><u>PR187</u></a>
PR1903M		Formulated to promote the adhesion of silicone based sealants to metals, synthetic elastomers and some woods.	6	<a href="#"><u>PR1903M</u></a>
PR421	Ketone / chlorinated hydrocarbon blend	Chromated corrosion inhibitive primer for use with polyurethane potting compounds and sealants on metals and composites (nylon, epoxy and glass fibre)	12	<a href="#"><u>PR421</u></a>

### 3. Corrosion Inhibiting

Product	Use / Description	Technology	Classes	Typical Application Life (25°C/50%rh)	Tack free time	Durometer A Hardness (full cure)	Operational Temperature Range	Shelf Life (Months)	Approvals	LINK
PS870	Corrosion inhibitive sealant	Manganese Dioxide cured Polysulphide	A B C	- ½, 2 - ½, 2, 4 - 12, 168, 20, 24, 48,80	½=16, 2=24, 4=32	50	-54 to 121°C (135°C max)	6	Mil-PRF-81733 type 1, CMS552-01, DCMP-199, BMS5-95, STM40-111, FMS-402, SEA3750, STD179111	<a href="#"><b><u>PS870A</u></b></a> <a href="#"><b><u>PS870B</u></b></a> <a href="#"><b><u>PS870C</u></b></a>
PR1436	Corrosion inhibitive sealant	Dichromate Cured Polysulphide, contains chromate blend	GA GB Gspray	½, 2	½=10, 2=24	55	-55 to 105°C	6	AFS1936, DTD900/6140, Mil-S-81733, GC115AP, ABP4-3329, DOL259, STD179112-02,	<a href="#"><b><u>PR1436 GA</u></b></a> <a href="#"><b><u>PR1436 GB</u></b></a>
PR1431G	Corrosion inhibitive faying surface sealant	Dichromate Cured Polysulphide, contains chromate blend	Type I, II, IV, T	I=12, II=24, IV=48	I=20, II=80, IV=168	45	-55 to 120°C	6	AFS1855, DTD900/4611, BAEP1001, STD179111, (T type, AFS1519, DTD900/4900) BMS5-95K DMS 2013 MIL-PRF-81733 STD 179118	<a href="#"><b><u>PR1431 G</u></b></a>

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#### 4. Conductive and Insulating

Product	Use / Description	Technology	Classes	Typical Application Life (hours @ 25°C/50%rh)	Tack free time (hours)	Durometer A Hardness	Operational Temperature Range	Shelf Life (Months)	Approvals	LINK
PS872B	Conductive lightning strike sealant	Aluminium filled Manganese Dioxide cured Polysulphide	B	½, 2	½=10, 2=36	55	-55 to 121°C (135°C max)	6	GC146DV, LCM40-2188B, STM40-114	<a href="#"><b>PS872B</b></a>
PR934B	Anti-static Coating	Epoxy compound	B		1½	N/A	-55 to 105°C	6		<a href="#"><b>PR934B</b></a>
PR2200B	Conductive sealant	Nickel filled epoxy cured Permapol P3.1 polythioether	B	1	<5	75	-55 to 121°C (182°C max)	6	MMS-327	<a href="#"><b>PR2200B</b></a>
PR1460Q	Electrical Potting and sealing Compound	Manganese Dioxide cured Polysulphide		2		40	-57 to 121°C (135°C max)	6	Mil-S-8516	<a href="#"><b>PR1460Q</b></a>
PR1592A	Potting compound	Two part Polyurethane	A: Amber			85	-57 to 150°C	12	Mil-M-24041, Mil-S-8516	<a href="#"><b>PR1592A</b></a>
PR1564	Potting compound	Two part Polyurethane			12	65	-62 to 135°C	12	Mil-S-8516	<a href="#"><b>PR1564</b></a>
PR1764	Electrically conductive	Ni filled Manganese dioxide cured polysulphide	B	½, 2	5, 10	55	-62 to 135°C	6	AMS3266, STD 179124	<a href="#"><b>PR1764B</b></a>
PR1201Q	Potting compound	Lead dioxide cured		1	24	45	-55 to 105°C	6	Mil-S-8516, AFS 1986	<a href="#"><b>PR1201Q</b></a>

		Polysulphide							(DTD900 4525), STD 179117	
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## 5. Fuel Tank

Product	Use / Description	Technology	Class	Typical Application Life 25°C/ 50%rh	Tack free time (hours)	Durometer A Hardness	Operational Temp. Range (°C)	Shelf Life Mont hs	Approvals	LINK
PR1422		Dichromate Cured Polysulphide	A	-½, 2,4	½=10, 2=24, 4=36	50	-55 - 135	9	A(AFS1592, DTD 900/4590A), ABP4-5141, ABP4-5142, Mil-S-8802, STD179119-02, B(AFS1593A DTD 900/4868), BAEP1011, DMS2082, DHMS S3.01 , CMS552-05, STM 0236, STD179114, LCM40-2180	<a href="#"><u>PR1422A</u></a>
			B	-½, 2	½=10, 2=24	56				<a href="#"><u>PR1422B</u></a>
PR1440		Manganese Dioxide Cured Polysulphide	A	-½, 2	½=10, 2=24	45	-55 - 135	9	A-AFS1909, B-AFS1910, DTD900/6138, MIL-S-8802, HMS16-1097, STD179114, STD179119,	<a href="#"><u>PR1440A</u></a>
			B	-½, 2, 4						<a href="#"><u>PR1440B</u></a>
			C	-20,						<a href="#"><u>PR1440C</u></a>
PR1750		Manganese Dioxide Cured Polysulphide	A	½, 2	10,24	50	-55 – 120	9	A(AFS1807) B(AFS1808), DTD900/6092A, MIL-S-83430, AMS3276, STM40-109, FMS1044, MMS332	<a href="#"><u>PR1750A</u></a>
			B	½, 2	10,24	50	-55 – 120			<a href="#"><u>PR1750B</u></a>
PR1770	High temperature and strength, fuel tank sealant,	Manganese Dioxide Cured Permapol P5	A	½, 2, 4	10, 24, 36	A=55	-55 - 180°C	6	SP-J-513-M0020, MS426, AIMS 04-05-001/002, ABP 4-5141	<a href="#"><u>PR1770A</u></a>
			B	½, 2, 4		B=57				<a href="#"><u>PR1770B</u></a>
			C	8, 12, 24,						<a href="#"><u>PR1770C</u></a>

	resistant to hydraulic and aviation fuel.			168,						<b><u>PR1770C</u></b>
PR1776	Low density fuel tank sealant	Manganese Dioxide Cured Permapol P5	B	½, 2	<10, <24	50	-55 – 121 (182 max)	6	BMS5-45, CMS552-02, DHMS S3.01, DMS2427	<b><u>PR1776B</u></b>
PR1779	Low density fuel tank sealant	Manganese Dioxide Cured Permapol P5	B	½, 2, 4	4, 8, 16	50	-55 - 180	6	ABP4-5141, ABP4-5142, AIMS 04.05.001, AIMS 04.05.002, AIMS 04.05.012,	<b><u>PR1779B</u></b>
PR1791	High temperature fuel tank sealant	Amine Cured Viton Sealant	A B	5	8	70	-55 - 230	6	AFS1856, DTD900/6121, STD179160	<b><u>PR1791A</u></b> <b><u>PR1791B</u></b>
PR1826	Rapid cure fuel tank sealant	Epoxy Cured Permapol P3 Polythioester	B	¼, ½, 2	1,2,12	47	-62 – 160 (216 max)	6	AMS3277	<b><u>PR1826B</u></b>
PR1828	Rapid cure fuel tank sealant	Epoxy Cured Permapol P3 Polythioester	B	¼, ½, 2	1, 2, 8	50	-55 - 150	6	AMS3277, MS404, FMS3064, ABP4-5141	<b><u>PR1828B</u></b>
PR7422	Fuel tank sealant	Dichromate Cured Polysulphide		½, 2	10, 24	50	-55 - 135	9	AFS1920, DTD900/6137, BAEP1001, ABP4-5141, ABP4-5142	<b><u>PR7422</u></b>
PS890	Fuel tank sealant	Manganese Dioxide cured polysulphide	A B C	½, 2 ½, 2 48, 80	10, 24	50	-55 - 135	9	AMS-8802, BMS5-26, BMS5-44, STD119111, STM0833, STM40-113, FMS-1049, RMS046, DHMS S3.07, STD119111	<b><u>PS890A</u></b> <b><u>PS890B</u></b> <b><u>PS890C</u></b>

## 6. Windscreen

Product	Use / Description	Technology	Classes	Typical Application Life 25°C/50%rh	Tack free time	Durometer A Hardness	Operational Temperature Range	Shelf Life (Months)	Manufacturer Approvals	LINK
PR1425	Windscreen sealant	Dichromate Cured Polysulphide	B	½, 2	½=12, 2=24	55	-55 to 135°C	9	AFS1295A, DTD900/602 1, GC146BH, MEP09-037, MAT-136, MPS-184, STD179115, MEP09-037	<b><u>PR1425B</u></b>
PR1829	Quick repair at low temperature windscreen sealant	Epoxy cured Permapol P3	B	½, 2	3, 8	55	-55 - 150	6	ABP4-5142, MAT-524	<b><u>PR1829</u></b>

## 7. Aerodynamic and Weatherproof

	Use / Description	Technology	Classes	Typical Application Life (25°C/50%rh )	Tack free time	Durometer A Hardness	Operational Temperature Range	Shelf Life (Months)	Approvals	LINK
PR1436	Chromate enriched aerodynamic smoothing compound	Dichromate Cured Polysulphide	B, GA, GB, GSpray	2, ½	10, 18	55	-55 - 105	6	DAN1186, MIL-PRF-81733, ABP 4-5142, ABP4-3329 DOL259 GC115AP STD179112-02 AFS1936(DTD 900/6140)	<b><u>PR1436B</u></b> <b><u>PR1436GA</u></b> <b><u>PR1436GB</u></b>

## 8. Firewall

	Technology	Classes	Typical Application Life (25°C/50%rh)	Tack free time	Durometer A Hardness	Operational Temperature Range °C	Shelf Life (Months)	Manufacturer Approvals	LINK
PR1995	Silicone	B	2		50	-54 to 204 (1927)	6	MS433,	<b><u>PR1995</u></b>
PS700	Polyacrylic		2	4	75	-54 to 204 (1093 max)	12	DHMS S3.04 MIL-S-38249	<b><u>PS700</u></b>

## 9. Access Door

Product	Use / Description	Technology	Classes	Typical Application Life (25°C/50%rh)	Tack free time	Durometer A Hardness	Operational Temperature Range °C	Shelf Life (Months)	Manufacturer Approvals	LINK
PR1428	Low adhesion access door sealant	Manganese dioxide cured polysulphide	A B	½, 2	6, 10	50	-54 – 121 (135 max)	9	MIL-S-8784B BMS 5-37 DMS 2410 DHMS S3.02 AFS 2317	<b><u>PR1428A</u></b>  <b><u>PR1428B</u></b>