

Test Matrix



2 Pack Low VOC Chromate Free Anti-Corrosive Primer

IP Product Numbers:	IP3-6500	Mid Grey
	IP3-6600	Meggitt Pale Yellow / Green
	IP3-6700	Light Green
	IP3-9IRR	Black Infra-Red Reflective
	IP714-A	Pratt and Whitney Light Grey
	IP714-2A	Pratt and Whitney Dark Grey

Test Matrix to Customer Specification Requirements

Specification	Test	Method	Requirement/Result	Test Lab
CPW 714; PWA 36568 (i)	Heat Resistance	400 ± 10°F (204 ± 5°C) 48 hours duration	No chalking, blistering or flaking	Pratt & Whitney, US & Canada
CPW 714; PWA 36568 (i)	Hot Oil Resistance	ASTM Service Fluid No 101 (ref ASTM D471) 8 hours @ 350 ± 10°F (176 ± 5°C)	No Peeling, softening or blistering	Pratt & Whitney, US & Canada
CPW 714; PWA 36568 (i)	Fuel Resistance	ASTM Reference Fuel (ref ASTM D471) 4 hours @ room temp	No peeling, softening or blistering	Pratt & Whitney, US & Canada
CPW 714; (i)	Solvent Resistance	50 rubs with moderate pressure with MEK soaked cloth	No removal of coating back to substrate	Pratt & Whitney, Canada
MSRR 9064 (ii)	Heat Resistance	180°C; 100 hours duration	No blistering: film remains intact; slight discolouration allowed	Rolls-Royce / IP
MSRR 9064 (ii)	Salt Water Fog	100 hours to ASTM B-117 Panel cross scribed to metal	No breakdown or excessive corrosion creep from scribe	Rolls-Royce / IP
LB 568 (iii)	Salt Water Fog	100 hours to ASTM B-117 Panel cross scribed to metal	No breakdown or excessive corrosion creep from scribe	Turbomeca France
Dunlop PRO599 (ii)	Salt Water Fog	Minimum 2000 hours to ASTM B-117	No breakdown or corrosion	Meggitt ABS
Eurocopter P05 Test Regime (v)	Salt Water Fog	3000 hours to ASTM B-117	0.5mm corrosion in scribe	Eurocopter Marignane
MSRR 9064 (ii)	Heat / Salt Water Cycle	20 cycles of: 2 hours @ 150°C 2 hours @ room temp 20 hours HSS to ASTM B-117: Panel cross scribed	No breakdown or excessive corrosion creep from scribe	Rolls Royce / IP
MSRR 9064 (iv)	Fuel Resistance	Engine Fuel to Def Stan 91-91 100 hours @ 70 ± 2°C	No softening; lifting or blistering	Rolls-Royce / IP

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Specification	Test	Method	Requirement/Result	Test Lab
MSRR 9064 (iv)	Hot Oil Resistance	Oil to Def-Stan 91-101 (viii) 100 hours @ 150 ± 5°C	No softening; lifting or blistering	Rolls-Royce / IP
MSRR 9064 Dunlop PRO525 (ii)	Adhesion	BS 3900: E6; 1mm lattice	Not greater than Classification No.2 Result: Class 0 No Removal	Rolls-Royce / IP Meggitt ABS
MSRR 9910 (ii)	Tri-n-butyl phosphate resistance	3 hours @ 70°C	No softening; lifting or blistering	Rolls-Royce / IP
Dunlop PRO599 (ii)	Tri-n-butyl phosphate resistance	336 hours @ 70°C	No softening; lifting or blistering Pass 1500gm scratch	Meggitt ABS
Messier Dowty PCS 2530 (vii)	Tri-n-butyl phosphate resistance (AIMS 04-04 013)	336 hours @ 70°C	No softening; lifting or blistering Adhesion to ISO-2409 Rating 0-1	Messier-Dowty Birdos (ref PV-8359)
Dunlop PRO599 (ii)	Water Soak	336 hours @ 23°C	No adhesion loss; softening or blistering	Meggitt ABS
Dunlop PRO599 (ii)	Wear Resistance	Taber Abrader 1000 gm / 1000 revs CS17 wheel	<60% removal	Meggitt ABS

- (i) Aluminium Substrate CPW714 testing: AMS4037 alloy or equivalent
- (ii) Aluminium Substrate Indestructible Lab: 90-99% aluminium (<5% Cu)
- (iii) Anodised aluminium as specified in CCT6010
- (iv) Mild Steel Substrate
- (v) Aluminium Substrate 2024T3 with SAA pre-treatment
- (vi) Aluminium Substrate 7075 T6 with SAA pre-treatment
- (vii) Mild Steel Substrate Basecoated with IP9183-R1 Ipcote sacrificial aluminium coating
- (viii) Def-Stan 91-101 oil confirms to Mil-PRF-23699-F-Std