

PHOS-PREP PP 910 - Cr6 Replacement - Chrome Free Aluminium Preparation

PHOS-PREP PP 910 is a direct non-chromate replacement for chromate based products for the pre-treatment of aluminium and aluminium alloys. A coloured surface finish is produced, enabling easy assessment of pre-treated surfaces. PP 910 offers excellent adhesion and corrosion resistance after subsequent painting or powder coating. Meeting the performance requirements of Qualicoat.

Example of a typical process

1.	PP 933 – Alkali etch cleaning	10 mins	55 C
2.	Water rinse	1-2 mins	Room Temp
3.	PP 932 – Acid etch cleaning	10 mins	20 – 40 C
4.	Water rinse	1-2 mins	Room Temp
5.	Water rinse De-ionised	1-2 mins	Room Temp
6.	PP 910 – Chrome Free Preparation	1-3 mins	20 – 30 C
7.	Water rinse	1-2 mins	Room Temp
8.	Water rinse De-ionised	1-2 mins	Room Temp
9.	Drying	10 mins	100 – 200 C

Performance BS EN ISO 12206:2004 Paints & varnishes. Coatings of aluminium & aluminium alloys for architectural purposes: There is no blistering of more than 3mm of corrosion from the scribe.

PHOS-PREP PP 920 - Dry In Place - Chrome Free Aluminium Preparation

PHOS-PREP PP 920 is a non-chromate replacement for chromate based products for the pre-treatment of aluminium and aluminium alloys, magnesium and zinc (i.e. galvanised surfaces). A very pale surface finish is produced, eliminating the possibility of pre-treatment staining being visible through the paint. PP 920 offers excellent adhesion and corrosion resistance after subsequent painting or powder coating. Meeting the performance requirements of Qualicoat.

Example of a typical process

1.	PP 933 – Alkali etch cleaning (for heavy contamination)	10 mins	55 C
	PP 932 – Acid etch cleaning (for light contamination)	10 mins	20 – 40 C
2.	Water rinse	1-2 mins	Room Temp
3.	Water rinse	1-2 mins	Room Temp
4.	PP 920 – Chrome Free Preparation	1-3 mins	Room Temp
5.	Drying	10 mins	100 – 200 C

Performance BS EN ISO 12206:2004 - Paints & varnishes. Coatings of aluminium & aluminium alloys for architectural purposes: There is no blistering of more than 3mm of corrosion from the scribe.

PHOS-PREP PP 971T - Chrome Free Aluminium Preparation

PHOS-PREP PP 971T is a non-chromate replacement for chromate based products for the pre-treatment of aluminium and aluminium alloys, magnesium and zinc (i.e. galvanised surfaces). A very pale surface finish is produced, eliminating the possibility of pre-treatment staining being visible through the paint. PP 971T offers excellent adhesion and corrosion resistance after subsequent painting or powder coating. PP971T can be used with PP 975 detergent additive to operate as a combined degreasing and preparation, for conventional Three and Five stage spray or Immersion processes.

Example of a typical on-line spray process

1.	PP 971T – Chrome Free Preparation *	2-3 mins	30 - 50 C
	PP 975 – Detergent additive		
2.	Water rinse	1-2 mins	Room Temp
3.	Water rinse De-ionised (Optional)	1-2 mins	Room Temp
4.	Drying	10 mins	100 – 200 C

PHOS-PREP - Aluminium Chrome Free Technologies Benefits

PROPERTY	PP 971T	PP 910	PP 920	PROPERTY	PP 971T	PP 910	PP 920
Spray	Y	Y	Y	ISO 9227 Acetic	<1000 hrs	>1000 hrs	>1000 hrs
Immersion	Y	Y	Y	ISO 6270 Humidity	>1000 hrs	>2000 hrs	>2000 hrs
Single stage clean	Y	N	N	ISO 2409 Cross hatch	Y	Y	Y
Visible coating	N	Y	N	EN 12206-1 2004 Part 5.10 pressure cooker	Y	Y	Y
Coverage per ltr	125m ²	150m ²	150m ²	ASTM D2794 Impact	Y	Y	Y
No post rinse	N	N	Y				

PHOS-PREP PP 971T will pass pressure cooker test only after Pre Treatment with PP 932 *

LEANCOAT LC400 is a Phosphate Free alternative to PHOS-PREP PP 971T ** (when used in a five stage spray or immersion process)