

# Prime Chemicals-Pakistan

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## Aluminax-100

A UNIQUE PROCESS FOR THE COLORING OF ALUMINIUM COMPONENTS WITHOUT CHROMIUM

### Salient Features

Aluminax-6000 triggers innovation in aluminium surface treatment. It has been used in a two-step process for anodizing and colouring of aluminium. In conventional processes for colouring of aluminium, gold effects are obtained by anodizing the aluminium and then applying the colour. Dyes are often used to colour the surface, but there are limitations in the performance

of the dyes used to obtain gold effects. The shade often appears too yellow or too brown, and the lightfastness of the dyes is not always up to standard. We have devised a process for colouring aluminium in baths containing Aluminax-6000. This innovative new process makes it possible to obtain a realistic gold finish on aluminium surfaces.

Instead of dyes, finely divided metal crystals are deposited in the aluminium oxide layer. The process enables aluminium finishers to obtain very level shades, especially gold shades, even on complex shapes.

Another advantage is that this process enables aluminium to be coloured up to 50 percent more quickly compared with other processes.

### Bath Make-up

	Unit	Optimum
Aluminax-6000 Make-UP	ml/lit.	500

### OR

Silver methane Sulphonate	g/Lit	15
Sulphuric Acid Extra Pure	ml/Lit	10
Aluminax-6000 Stabilizer	ml/Lit	50

### OPERATING CONDITIONS

Temperature	25° C	20 - 30° C
Cathode Current Density	0.5 A/dm <sup>2</sup>	0.2-2 A/dm <sup>2</sup>
Voltage AC	4	2 – 10 Volts
Time	15 Sec to 120 Sec (As per color required)	
Current Density	0.2-2.0 A/dm <sup>2</sup>	

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Please follow the reference table for Current Density and Time for Coloring.

CURRENT DENSITY			
Exposure Time	0.2 A/dm <sup>2</sup>	0.4 A/dm <sup>2</sup>	2 A/dm <sup>2</sup>
15 Seconds	Pale Gold	Light Gold	Reddish Gold
30 Seconds	Light Gold	Gold	Dark Reddish Gold
60 Seconds	Gold	Dark Gold	Burgundy
120 Seconds	Gold	Light Brown	Reddish Black
180 Seconds	Dark Gold	Dark Brown	Black

Copper and Tin salts can also be used to obtain other appropriate colors.

## Guarantee

Our guarantee extends to the continuous quality of our products as they leave our factory and not to their usage in the field. Our technical service will be pleased to answer any question you may have concerning operation and use of our products:

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