

# TECHNICAL DATA SHEET

## i-FIN AL CHEMICAL BRIGHTENER

i-Fin Al Chemical Brightener is a chemical brightening agent for aluminium and its alloys. It helps in evenly wetting the component.

### OPERATING CONDITIONS

	<b>Unit</b>	<b>Range</b>	<b>Optimum</b>
i-Fin Al chemical Brightener	gm/l	10-20	16
Phosphoric Acid	gm/ltr	750-770	760
Sulphuric Acid	gm/ltr	145-155	150
Nitric Acid	gm/ltr	85-95	90
Time	minutes	2 – 4	3
Temperature	°C	25-60	35

### BATH MAKE UP

- Fill the tank with deionized water up to  $\frac{3}{4}$  of its volume.
- Add the required quantity of phosphoric acid followed by nitric acid and mix well.
- Then add i-Fin Al chemical brightener.
- Finally add required quantity of sulphuric acid.
- Stir well and add deionized water up to the final volume.
- The bath is ready for operation after all the ingredients have been mixed thoroughly.

### Control maintenance

For every 10 sq.ft of aluminium surface treated, it is necessary to add 150 gm of nitric acid, 150 gm of sulphuric acid and 30gm of i-Fin Al chemical brightener.

### EQUIPMENT

#### Tank:

The tanks must be lined with a material that may be resistant to acids (e.g. PVC, polypropylene, fibre-glass, polyester, etc.)

*Issued on 04.01.2008  
Supersedes all earlier*