



# STEEL AND TIN MILL: Technical Data Sheet

# PRODUCT: Tin-Plating Electrolyte System – ManBrite™ Phenol Sulphonic Acid

## **DESCRIPTION:**

Phenol based sulphonic acid that results from the condensation of phenol with fuming Sulphonic Acid. Fabricated in specialised glass equipment. Mancuso Chemicals Limited is the largest manufacturer in Canada and is approved by Steel Mills in: Canada, USA, Taiwan, Brasil, Chile, Venezuela, Columbia, and Mexico.

## FIELD OF APPLICATION:

US Steel approved, Phenol Sulphonic Acid for Tin Plating operations using the Ferrostan® process. Is also used in non-tin plating operations.

## **CHEMICAL & PHYSICAL PROPERTIES\*\*:**

# THIS PRODUCT CONFORMS TO US STEEL SPECIFICATIONS. Customized specifications are available at no extra charge.

#### Typical Specifications:

PSA Content
Free Sulphuric Acid
Free Phenol
Iron Content
Freezing Point

65.0 – 67.0 %
2.50% maximum
From 0.1 to as needed
0.01 Max (as low as 0.005 ppm)
3°C

ENSA-6 Solubility 92% min.

## **SHELF LIFE:**

Chnic

Must be stored in polylined containers – available in pails, drums or totes. Not to be stored at temperatures below 5 °C. Minimum one year shelf life. Do not store in direct sunlight.

#### **SAFETY MEASURES:**

It is a strong acid and therefore, all precautions for handling these materials must be taken (safety glasses and rubber gloves when transferring). Refer to MSDS for further information.

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