



Material Data Sheet

Issue Date: xxxxx

Material Description

Grade: 1100-Aluminium

Related Specifications

AWS C2.25/C2.25M, ISO 209 & 14919 Standards

Surface Preparation

The surface should be clean, white metal, with no oxides (rust), dirt, grease, oil, or any other foreign components on the surface to be coated.

Applications

Oil and Gas Pipelines, Flare Towers, Onshore & Offshore Oil Platforms structures, Exhaust Stacks, Breakwater Piles, Ships, Tanks, Bridges & Chemical Plants.

Composition & Characteristics

Specification of chemical composition & characteristics* (where applicable)

COMPOSITIONS		
ELEMENT	Main Components	Impurity %
Al	≥ 99.99	
Fe		≤ 0.003%
Si		≤ 0.003%
Cu		≤ 0.005%
Pb		≤ 0.005%
Cd		≤ 0.002%
Σ		≤ 0.01%
Total		0.01

PACKAGING		
Format	Weight	Tolerance
Spool	15.43/28.6 lbs	+/- 4.4 lbs
Reel	15.43/28.6 lbs	+/- 4.4 lbs
Drum	110.23-176.37 lbs	+/- 4.4 lbs
Diameter (mm)		
1.6, 2.0, 2.3, 3.175 & 4.76		
Tolerance (mm)		
+0.00/-0.03	+0.00/-0.04	+0.00/-0.05
+0.00/-0.06	+0.00/-0.07	

Mechanical Characteristics

Tensile Strength	$\geq 80 \text{ n/mm}^2 \text{ min}$
Specific Gravity	2.7 g/cm^3
Specific resistance ($\text{m}\Omega\cdot\text{mm}^2/\text{m}$) at 20°C	≤ 29
Solidus / Liquidus Temp. ($^\circ\text{C}$)	660



Ash marine