

6101 ALLOY

ALUMINUM CONTINUOUS CAST RE-DRAW ROD

1100 ALLOY/6101 ALLOY

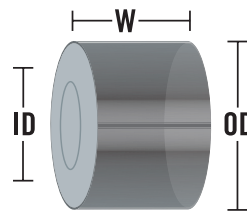


PRODUCT DESCRIPTION

- Heat-treatable alloy
- Principle alloying elements: magnesium and silicon
- Density: 2.7 g/cm³
- Standard diameter:* .375", .500" (9.5mm, 12.7mm)
- Tempers supplied: F (as Fabricated), T4 (Thermally Treated)

STANDARD PACKAGING * * Randomly wound:

- **Weight:** 5,600 lbs (2,540 kg)
- **ID:** 30.75" (78.10 cm)
- **OD:** 61.50" (156.21 cm)
- **W:** 34.00" (86.36 cm)
- **Option:** Palletized, eye-to-the-sky, ID and/or OD wrapping
- Rod surface condition: very clean to oiled



END-USE APPLICATION

- Electrical products

GENERAL INFORMATION

- Alloy equivalent of similar to: E-AMgSi (Austria), AGS/L (France), E-AMgSi0.5 (Germany), 91E (Great Britain)
- Polycrystalline diamond dies recommended for drawing to prevent die galling

For Electrical Applications

TYPICAL PROPERTIES

TEMPER	ULTIMATE TENSILE STRENGTH		PERCENT ELONGATION IN 10"	CONDUCTIVITY % IACS	RESISTIVITY OHM-mm ² /mm	TEMP. COEFF. OF RESISTANCE @ 20°C
	ksi	(MPa)				
ROD (.375")						
F	18-26	(125-180)	15	55	0.031347	0.00363
T4	26-30	(180-205)	15	52	0.033156	0.00344
WIRE (10 AWG)						
0	12-17	(85-115)	18	59	0.029222	0.00390
T6	30-36	(205-250)	—	55	0.031347	0.00363
T81	44-46	(305-315)	6	53	0.032530	0.00350

*other diameters: .375" (9.5mm) – 1.0" (25.4mm) available based upon minimum quantity requirements

**other packaging: 4,000 lbs. (1,814 kg) – 7,500 lbs. (3,402 kg) available based upon minimum quantity requirements

