

6063 ALLOY

ALUMINUM CONTINUOUS CAST RE-DRAW ROD

5154A ALLOY/6063 ALLOY



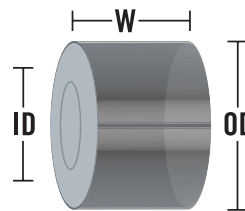
For Mechanical Applications

PRODUCT DESCRIPTION

- Heat-treatable alloy
- Principle alloying elements: magnesium and silicon
- Density: 2.70 g/cm³
- Standard diameter:* .375" (9.5mm), 500" (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

- Knitting needles
- Various round wire products

GENERAL INFORMATION

- Alloy equivalent or similar to: AlMgSi0.5 (Austria), ZGS10 (Canada), A-OS (France), AlMgSi0.5 (Germany), H19 (Great Britain)
- Wire Specification: ASTM B211
- Polycrystalline diamond dies recommended for drawing to prevent die galling

TYPICAL PROPERTIES

TEMPER	ULTIMATE TENSILE STRENGTH		PERCENT ELONGATION IN 10"
	ksi	(MPa)	
ROD (.375")			
F	20-28	(140-195)	15
T4	28-32	(195-220)	15
WIRE (10 AWG)			
0	15-19	(105-130)	18
T6	32-38	(220-260)	—
T81	46-48	(315-330)	7

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

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

