

Kaiser 4026 T651 Rod & Bar

Category : Metal , Nonferrous Metal , Aluminum Alloy , 4000 Series Aluminum Alloy

Material Notes:

This alloy is used when high strength with wear and/or galling resistance is required. It can eliminate hard-coat anodizing in some applications. Typical applications include air compressor pistons and automotive transmission valve parts. It has good machining characteristics, producing small chips and good surface finish. Ratings A through E are relative ratings in decreasing order of merit, based on exposures to sodium chloride solution by intermittent spraying or immersion. Alloys with A and B ratings can be used in industrial and seacoast atmospheres without protection. Alloys with C, D and E ratings generally should be protected at least on faying surfaces. Stress-corrosion cracking ratings are based on service experience and laboratory tests of specimens exposed to the 3.5% sodium chloride alternate immersion test. A= No known instance of failure in service or in laboratory tests. B= No known instance of failure in service; limited failures in laboratory tests of short transverse specimens. C= Service failures with sustained tension stress acting in short transverse direction relative to grain structure; limited failures in laboratory tests of long transverse specimens. D= Limited service failures with sustained longitudinal or long transverse. Ratings A through D for Workability (cold), A through E for Machinability and A through C for Anodize Response, are relative ratings in decreasing order of merit.

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http://www.lookpolymers.com/polymer_Kaiser-4026-T651-Rod-Bar.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	74	74	100 kg 1/16" Ball
Tensile Strength, Ultimate	427 MPa @Diameter 12.7 mm	61900 psi @Diameter 0.500 in	
Tensile Strength, Yield	393 MPa @Diameter 12.7 mm	57000 psi @Diameter 0.500 in	
Elongation at Break	8.5 % @Diameter 12.7 mm	8.5 % @Diameter 0.500 in	4D
Modulus of Elasticity	77.0 GPa @Diameter 12.7 mm	11200 ksi @Diameter 0.500 in	Tensile

Component Elements Properties	Metric	English	Comments
Aluminum, Al	80.8 - 86.8 %	80.8 - 86.8 %	As Balance
Bismuth, Bi	1.0 - 2.0 %	1.0 - 2.0 %	
Copper, Cu	2.5 - 3.5 %	2.5 - 3.5 %	
Iron, Fe	<= 0.50 %	<= 0.50 %	
Magnesium, Mg	0.70 - 1.4 %	0.70 - 1.4 %	

Component Elements Properties	Metric	English	Comments
Other, total	<= 0.15 %	<= 0.15 %	
Silicon, Si	9.0 - 11.5 %	9.0 - 11.5 %	
Titanium, Ti	<= 0.050 %	<= 0.050 %	
Zinc, Zn	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Cold Workability3	D	
Gall Resistance3	A	
General Corrosion Resistance1	C	
Machinability3	B	
Wear Resistance3	A	

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