

Kaiser 6040 T6, T651 Rod & Bar

Category : Metal , Nonferrous Metal , Aluminum Alloy , 6000 Series Aluminum Alloy

Material Notes:

6040 is a lead-free alternative to 6262. The alloy offers very good machinability along with good corrosion resistance. It also has excellent coating acceptance (anodize response). It can be used in place of 6062. Physical and mechanical properties are equivalent to 6262. 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. Ratings A through D for Weldability and Brazeability are relative ratings defined as follows: A= Generally weldable by all commercial procedures and methods. B= Weldable with special techniques or for specific applications that justify preliminary trials or testing to develop welding procedure and weld performance. C= Limited weldability because of crack sensitivity or loss in resistance to corrosion and mechanical properties. D= No commonly used welding methods have been developed.

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http://www.lookpolymers.com/polymer_Kaiser-6040-T6-T651-Rod-Bar.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	324 MPa	47000 psi	
	@Diameter 12.7 mm	@Diameter 0.500 in	
Tensile Strength, Yield	296 MPa	42900 psi	
	@Diameter 12.7 mm	@Diameter 0.500 in	
Elongation at Break	15 %	15 %	4D
	@Diameter 12.7 mm	@Diameter 0.500 in	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	93.75 - 98.15 %	93.75 - 98.15 %	As Balance
Bismuth, Bi	0.15 - 0.70 %	0.15 - 0.70 %	
Chromium, Cr	<= 0.15 %	<= 0.15 %	
Copper, Cu	0.20 - 0.80 %	0.20 - 0.80 %	
Iron, Fe	<= 0.70 %	<= 0.70 %	
Magnesium, Mg	0.80 - 1.2 %	0.80 - 1.2 %	

Component Elements Properties	Metric %	English %	Comments
Other, each	<= 0.050 %	<= 0.050 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silicon, Si	0.40 - 0.80 %	0.40 - 0.80 %	
Tin, Sn	0.30 - 1.2 %	0.30 - 1.2 %	
Titanium, Ti	<= 0.15 %	<= 0.15 %	
Zinc, Zn	<= 0.25 %	<= 0.25 %	

Descriptive Properties	Value	Comments
Anodize Response3	A	
Cold Workability3	C	
General Corrosion Resistance1	B	
Machinability3	B	
Stress Corrosion Resistance2	A	

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