

American Utility Metals 3CR12® Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

3CR12 is a weldable ferritic stainless steel, specifically designed for aggressive material handling applications. It is intended to provide the benefits of traditional stainless steel, such as strength, corrosion and abrasion resistance, durability and low maintenance. But it is also able to provide additional benefits such as good weldability and formability, making it capable of fabrication by conventional techniques. Because 3CR12 does not depend upon expensive alloying elements like Nickel and Molybdenum, it has maintained a consistently low cost advantage compared to other corrosion resisting materials. It also offers the option to reduce costs through eliminating protective treatments and corrosion allowances. In service, utility stainless steel goes on to generate savings in maintenance, improved productivity and longer service life. It is proven to offer lower life cycle costs than traditional materials where corrosion or abrasion affect service conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Utility-Metals-3CR12-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 220	<= 220	
	@Thickness <=12.7 mm	@Thickness <=0.500 in	
	<= 250	<= 250	
	@Thickness >=12.7 mm	@Thickness >=0.500 in	
Tensile Strength	>= 455 MPa	>= 66000 psi	transverse
Tensile Strength, Yield	280 - 450 MPa	40600 - 65300 psi	
	@Thickness <=3.17 mm	@Thickness <=0.125 in	transverse
	300 - 450 MPa	43500 - 65300 psi	
	@Thickness >=3.17 mm	@Thickness >=0.125 in	transverse
Elongation at Break	>= 18 %	>= 18 %	
	@Thickness <=4.50 mm	@Thickness <=0.177 in	transverse
	>= 20 %	>= 20 %	
	@Thickness >=4.50 mm	@Thickness >=0.177 in	transverse
Charpy Impact	>= 33.9 J	>= 25.0 ft-lb	
	@Thickness >=3.17 mm	@Thickness >=0.125 in	transverse

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	10.5 - 12.5 %	10.5 - 12.5 %	

Component Elements Properties	Metric	English	Comments
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	<= 1.5 %	<= 1.5 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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