

Crucible Steel Aquamet® 19 Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

AQUAMET 19 is a modified Type 304 stainless steel that is fully austenitic and non-magnetic. Strengthened by adding nitrogen to the melt, it has better corrosion resistance than Type 304 stainless. AQUAMET 19 has proven itself in demanding service on shrimpers, crabbers, scallopers, and other fishing boats as well as on pleasure craft. It may be considered as an economical alternative to AQUAMET

22.Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-Aquamet-19-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	655 MPa	95000 psi	
	@Thickness 76.2 - 305 mm	@Thickness 3.00 - 12.0 in	
	896 MPa	130000 psi	
	@Thickness <=38.1 mm	@Thickness <=1.50 in	
Tensile Strength, Yield	345 MPa	50000 psi	Tension
	@Strain 0.200 %, Thickness 76.2 - 305 mm	@Strain 0.200 %, Thickness 3.00 - 12.0 in	
	724 MPa	105000 psi	Tension
	@Strain 0.200 %, Thickness <=38.1 mm	@Strain 0.200 %, Thickness <=1.50 in	
Elongation at Break	35 %	35 %	in 2"; 3" to 12"
	20 %	20 %	in 2"
	@Thickness <=38.1 mm	@Thickness <=1.50 in	
Reduction of Area	55 %	55 %	
Shear Strength	228 MPa	33000 psi	
	@Strain 0.200 %, Thickness 76.2 - 305 mm	@Strain 0.200 %, Thickness 3.00 - 12.0 in	
	483 MPa	70000 psi	
	@Strain 0.200 %, Thickness <=38.1 mm	@Strain 0.200 %, Thickness <=1.50 in	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	

Component Elements Properties	Metric %	English %	Comments
Iron, Fe	>= 66.05 %	>= 66.05 %	As Remainder
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	8.0 - 10.5 %	8.0 - 10.5 %	
Nitrogen, N	0.20 - 0.30 %	0.20 - 0.30 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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