

Crucible Steel Aquamet® 22 Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

AQUAMET 22 is a high-alloy stainless steel with superior corrosion resistance along with excellent toughness and high strength. It has higher strength than AQUAMET 17 in 3/4" to 1-1/4" dia., and it has equivalent in strength in 1-3/8" to 2" dia. Due to its high alloy content, AQUAMET 22 resists pitting and crevice corrosion and is ideal for pleasure boats which are operated infrequently, spending much of their time tied up at docks. AQUAMET 22 H.S. is a high strength version available in 2-1/2" - 6" dia. NOTE: The mechanical properties of AQUAMET 22 H.S. are slightly lower in sizes 5" dia. and over. Information provided by Crucible Specialty Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Crucible-Steel-Aquamet-22-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	862 MPa	125000 psi	Aquamet 22 HS
	@Thickness 127 - 152 mm	@Thickness 5.00 - 6.00 in	
Tensile Strength, Yield	1000 MPa	145000 psi	Tension; Aquamet 22 HS
	@Thickness 19.0 - 31.8 mm	@Thickness 0.750 - 1.25 in	
Tensile Strength, Yield	414 MPa	60000 psi	Tension; Aquamet 22 HS
	@Strain 0.200 %, Thickness 127 - 152 mm	@Strain 0.200 %, Thickness 5.00 - 6.00 in	
Tensile Strength, Yield	621 MPa	90000 psi	Tension; Aquamet 22 HS
	@Strain 0.200 %, Thickness 127 - 152 mm	@Strain 0.200 %, Thickness 5.00 - 6.00 in	
Tensile Strength, Yield	896 MPa	130000 psi	Tension
	@Strain 0.200 %, Thickness 19.0 - 31.8 mm	@Strain 0.200 %, Thickness 0.750 - 1.25 in	
Elongation at Break	15 %	15 %	in 2"; 5" to 6"; Aquamet 22 HS
	18 %	18 %	
Reduction of Area	50 %	50 %	1-1/4" to 12"
	45 %	45 %	
Reduction of Area	@Thickness 19.0 - 31.8 mm	@Thickness 0.750 - 1.25 in	
	597 MPa	86600 psi	
Shear Strength	@Strain 0.200 %,	@Strain 0.200 %,	

Mechanical Properties	Thickness 19.0 - 31.8 Metric	Thickness 0.750 - 1.25 English	Comments
Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.060 %	<= 0.060 %	
Chromium, Cr	20.5 - 23.5 %	20.5 - 23.5 %	
Iron, Fe	>= 51.87 %	>= 51.87 %	As Remainder
Manganese, Mn	4.0 - 6.0 %	4.0 - 6.0 %	
Molybdenum, Mo	1.5 - 3.0 %	1.5 - 3.0 %	
Nb + Ta	0.10 - 0.30 %	0.10 - 0.30 %	
Nickel, Ni	11.5 - 13.5 %	11.5 - 13.5 %	
Nitrogen, N	0.20 - 0.40 %	0.20 - 0.40 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Vanadium, V	0.10 - 0.30 %	0.10 - 0.30 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China