

MetalTek ESCOLOY 45D® Cast UNS J93345 Duplex Stainless Steel

Category : Metal , Ferrous Metal , Duplex , Stainless Steel , Cast Stainless Steel

Material Notes:

Excellent seawater corrosion resistance combined with nearly twice the strength of common stainless steels. Produced under license of ESCO Corp.Applications: Offshore piping systems, couplings. Centrifuge, dewatering equipment. Pump, valve trim, pulp digesters
Information provided by MetalTek

Order this product through the following link:

http://www.lookpolymers.com/polymer_MetalTek-ESCOLOY-45D-Cast-UNS-J93345-Duplex-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	217	217	
Tensile Strength, Ultimate	>= 655 MPa	>= 95000 psi	
Tensile Strength, Yield	>= 450 MPa	>= 65300 psi	
Elongation at Break	>= 25 %	>= 25 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.080 %	<= 0.080 %	
Chromium, Cr	22.5 - 25.5 %	22.5 - 25.5 %	
Iron, Fe	55.62 - 66.4 %	55.62 - 66.4 %	As Balance
Manganese, Mn	<= 1.5 %	<= 1.5 %	
Molybdenum, Mo	3.0 - 4.5 %	3.0 - 4.5 %	
Nickel, Ni	8.0 - 11 %	8.0 - 11 %	
Nitrogen, N	0.10 - 0.30 %	0.10 - 0.30 %	
Silicon, Si	<= 1.5 %	<= 1.5 %	

Descriptive Properties	Value	Comments
Heat Treatment	Sol. Anneal	

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