

AK Steel 2205 Duplex Stainless steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

AK Steel 2205 provides a combination of high strength, excellent corrosion resistance and stress-corrosion cracking resistance as well as very good pitting resistance, and low thermal expansion. The alloy is useful in a variety of applications that include heat exchangers, piping, pressure vessels, tanks, fans, pulp and paper production equipment, oilfield equipment and press rolls. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-2205-Duplex-Stainless-steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	22	22	
Tensile Strength, Ultimate	750 MPa	109000 psi	
Tensile Strength, Yield	510 MPa @Strain 0.200 %	74000 psi @Strain 0.200 %	
Elongation at Break	35 %	35 %	in 2 inches
Charpy Impact, Notched	84.4 J/cm ²	402 ft-lb/in ²	Longitudinal
	@Thickness 1.50 mm, Temperature -40.0 °C	@Thickness 0.0591 in, Temperature -40.0 °F	
	131 J/cm ²	623 ft-lb/in ²	Longitudinal
	@Thickness 1.50 mm, Temperature -40.0 °C	@Thickness 0.0591 in, Temperature -40.0 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	22 %	22 %	
Iron, Fe	68.71 %	68.71 %	As Remainder
Molybdenum, Mo	3.1 %	3.1 %	
Nickel, Ni	6.0 %	6.0 %	
Nitrogen, N	0.17 %	0.17 %	

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