

AK Steel 409Ni Ferritic Stainless steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

AK Steel 409Ni is a nominal 11% chromium stainless steel micro-alloyed with titanium, manganese and nickel that provides excellent weldability, toughness and fabricating characteristics. AK Steel 409Ni is an ideal material for applications requiring weldability and toughness superior to standard Type 409, at relatively low cost. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-409Ni-Ferritic-Stainless-steel.php

Physical Properties	Metric	English	Comments
Density	7.70 g/cc	0.278 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	83	83	plate
	@Thickness 9.50 mm	@Thickness 0.374 in	
Tensile Strength, Ultimate	469 MPa	68000 psi	plate
	@Thickness 9.50 mm	@Thickness 0.374 in	
Tensile Strength, Yield	352 MPa	51100 psi	plate
	@Strain 0.200 %, Thickness 9.50 mm	@Strain 0.200 %, Thickness 0.374 in	
Elongation at Break	28 %	28 %	in 2 inches, 9.5 mm plate

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	11 %	11 %	
Iron, Fe	86.841 %	86.841 %	As Remainder
Manganese, Mn	0.70 %	0.70 %	
Nickel, Ni	0.85 %	0.85 %	
Nitrogen, N	0.015 %	0.015 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.35 %	0.35 %	
Sulfur, S	0.0040 %	0.0040 %	
Titanium, Ti	0.20 %	0.20 %	

Component Elements Properties

Metric

English

Comments

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