

AK Steel 439 LT Ferritic Stainless steel

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

Material Notes:

AK Steel 439 LT has oxidation and corrosion resistance comparable to Type 439 stainless steel. This alloy also has optimum formability that is reproducible coil after coil and heat after heat. This provides special advantages when producing difficult-to-form exhaust system components. The lower titanium content of AK Steel 439 LT Stainless Steel provides an improved surface free from titanium scale. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-439-LT-Ferritic-Stainless-steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	73 - 79	73 - 79	
	@Thickness 1.02 - 1.78 mm	@Thickness 0.0402 - 0.0701 in	
Tensile Strength, Ultimate	442 - 497 MPa	64100 - 72100 psi	
	@Thickness 1.02 - 1.78 mm	@Thickness 0.0402 - 0.0701 in	
Tensile Strength, Yield	276 - 331 MPa	40000 - 48000 psi	
	@Strain 0.200 %, Thickness 1.02 - 1.78 mm	@Strain 0.200 %, Thickness 0.0402 - 0.0701 in	
Elongation at Break	30 - 35 %	30 - 35 %	in 2 inches (1.02 - 1.78 mm)

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.025 %	<= 0.025 %	
Chromium, Cr	17 - 19 %	17 - 19 %	
Iron, Fe	>= 78.725 %	>= 78.725 %	As Remainder
Manganese, Mn	<= 0.50 %	<= 0.50 %	
Nickel, Ni	<= 0.50 %	<= 0.50 %	
Other, total	0.20 - 0.50 %	0.20 - 0.50 %	
Silicon, Si	<= 0.75 %	<= 0.75 %	

Descriptive Properties	Value	Comments
Deep-Drawing Capability r_m	1.3 - 1.8	.040 - .070 inches sheet thickness
Strain Hardening Exponent n	0.19 - 0.23	.040 - .070 inches sheet thickness

Descriptive Properties

Value

Comments

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