

## AK Steel 11 Cr-Cb™ Ferritic Stainless steel

Category : Metal , Ferrous Metal , Ferritic , Stainless Steel

### Material Notes:

AK Steel 11 Cr-Cb™ has increased silicon levels and is dual stabilized with titanium and columbium. Designed for use in automotive exhaust tubing and other high-temperature applications, this is a more cost-effective alternative for many applications now using AK Steel 18 Cr-Cb and Type 439 stainless steels. This alloy should also be considered for applications which Type 409 provides only marginal strength and oxidation resistance. ASTM Grain Size = 5 - 6. Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-11-Cr-Cb-Ferritic-Stainless-steel.php](http://www.lookpolymers.com/polymer_AK-Steel-11-Cr-Cb-Ferritic-Stainless-steel.php)

Physical Properties	Metric	English	Comments
Density	7.61 g/cc	0.275 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	79 - 82 @Thickness 1.02 mm	79 - 82 @Thickness 0.0402 in	
Tensile Strength, Ultimate	503 - 538 MPa @Thickness 1.02 mm	73000 - 78000 psi @Thickness 0.0402 in	
Tensile Strength, Yield	345 - 372 MPa @Strain 0.200 %, Thickness 1.02 mm	50000 - 54000 psi @Strain 0.200 %, Thickness 0.0402 in	
Elongation at Break	29 - 33 %	29 - 33 %	in 2 inches

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 %	0.010 %	
Chromium, Cr	11.35 %	11.35 %	
Iron, Fe	86.325 %	86.325 %	As Remainder
Manganese, Mn	0.25 %	0.25 %	
Nickel, Ni	0.20 %	0.20 %	
Niobium, Nb (Columbium, Cb)	0.35 %	0.35 %	
Nitrogen, N	0.015 %	0.015 %	
Silicon, Si	1.3 %	1.3 %	
Titanium, Ti	0.20 %	0.20 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00007917 ohm-cm	0.00007917 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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