

## AK Steel 41003 Ferritic Stainless steel

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

### Material Notes:

AK Steel 41003 is an economical steel that provides excellent weldability, toughness and fabricating characteristics. This alloy is an excellent choice for applications such as tubing and sheet for bus frames, coal hopper cars, street sweepers, chutes, storage tanks, ISO shipping container frames and other equipment requiring low life-cycle costs. Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-41003-Ferritic-Stainless-steel.php](http://www.lookpolymers.com/polymer_AK-Steel-41003-Ferritic-Stainless-steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	81	81	Typical
	75 - 94 @Thickness 2.50 mm	75 - 94 @Thickness 0.0984 in	Cold rolled + annealed sheet
Hardness, Rockwell C	<= 20	<= 20	Specification
Tensile Strength, Ultimate	513 MPa	74400 psi	Typical
	461 - 603 MPa @Thickness 2.50 mm	66900 - 87500 psi @Thickness 0.0984 in	Cold rolled + annealed sheet
Tensile Strength, Yield	346 MPa	50200 psi	Typical
	298 - 436 MPa @Strain 0.200 %, Thickness 2.50 mm	43200 - 63200 psi @Strain 0.200 %, Thickness 0.0984 in	Cold rolled + annealed sheet
Elongation at Break	26 %	26 %	Typical
	18 - 36 %	18 - 36 %	in 2 inches (Cold rolled + annealed sheet nominally 2.5 mm thick)
Charpy Impact, Notched	135 J/cm <sup>2</sup> @Thickness 2.50 mm	642 ft-lb/in <sup>2</sup> @Thickness 0.0984 in	Transverse [Cold rolled + Annealed + Pickled, sheet]
	205 J/cm <sup>2</sup> @Thickness 2.50 mm	976 ft-lb/in <sup>2</sup> @Thickness 0.0984 in	Longitudinal [Cold rolled + Annealed + Pickled, sheet]
	103 J/cm <sup>2</sup> @Thickness 2.50 mm, Temperature -30.0 °C	490 ft-lb/in <sup>2</sup> @Thickness 0.0984 in, Temperature -22.0 °F	Transverse [Cold rolled + Annealed + Pickled, sheet]
	192 J/cm <sup>2</sup> @Thickness 2.50 mm, Temperature -30.0 °C	914 ft-lb/in <sup>2</sup> @Thickness 0.0984 in, Temperature -22.0 °F	Longitudinal [Cold rolled + Annealed + Pickled, sheet]

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	10.5 - 12.5 %	10.5 - 12.5 %	
Iron, Fe	>= 83.37 %	>= 83.37 %	As Remainder
Manganese, Mn	<= 1.5 %	<= 1.5 %	
Nickel, Ni	<= 1.5 %	<= 1.5 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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