

AK Steel Aluminized Carbon Steel, Extra Deep Drawing Steel Plus (EDDS+), Standard Grade

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel

Material Notes:

Aluminized Type 1 coating contains approximately 91% aluminum and 9% silicon that is metallurgically bonded to the low-carbon steel substrate. Interstitial Free (I-F) steels are made by adding titanium and/or columbium to the molten steel after vacuum degassing and offer excellent drawability. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-Aluminized-Carbon-Steel-Extra-Deep-Drawing-Steel-Plus-EDDS-Standard-Grade.php

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in ³	Typical Carbon Steel

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	310 MPa	45000 psi	
Tensile Strength, Yield	165 MPa	23900 psi	
Elongation at Break	44 %	44 %	
Modulus of Elasticity	201 GPa	29200 ksi	
	88.3 GPa	12800 ksi	
	@Temperature 649 °C	@Temperature 1200 °F	
	183 GPa	26500 ksi	
	@Temperature 316 °C	@Temperature 600 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 677 °C	>= 1250 °F	

Descriptive Properties	Value	Comments
Deep-Drawing Capability rm	1.8	
Strain Hardening Exponent n	0.22	

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