

AK Steel Aluminized Carbon Steel, Deep Drawing Steel (DDS Type B), 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. DDS is made by adding aluminum to the molten steel and may be used in drawing applications. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-Aluminized-Carbon-Steel-Deep-Drawing-Steel-DDS-Type-B-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	338 MPa	49000 psi	
Tensile Strength, Yield	228 MPa	33100 psi	
Elongation at Break	41 %	41 %	
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	1.2	
Strain Hardening Exponent n	0.21	

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