

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

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

Material Notes:

Interstitial Free (I-F) steels are made by adding titanium and/or niobium 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-Cold-Rolled-Carbon-Steel-Extra-Deep-Drawing-Steel-Plus-EDDS-Standard-Grade.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 7.87 g/cc | 0.284 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|-----------|-------------|
| Hardness, Rockwell B | 30 | 30 | |
| Tensile Strength, Ultimate | 296 MPa | 42900 psi | |
| Tensile Strength, Yield | 145 MPa | 21000 psi | |
| Elongation at Break | 46 % | 46 % | in 2 inches |
| Modulus of Elasticity | 200 GPa | 29000 ksi | |

| Thermal Properties | Metric | English | Comments |
|------------------------|--|--|----------|
| CTE, linear | 12.9 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 7.17 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | |
| | @Temperature 20.0 - 100 $^{\circ}\text{C}$ | @Temperature 68.0 - 212 $^{\circ}\text{F}$ | |
| Specific Heat Capacity | 0.481 J/g- $^{\circ}\text{C}$ | 0.115 BTU/lb- $^{\circ}\text{F}$ | |
| | @Temperature 50.0 - 100 $^{\circ}\text{C}$ | @Temperature 122 - 212 $^{\circ}\text{F}$ | |
| Thermal Conductivity | 93.0 W/m-K | 645 BTU-in/hr-ft ² - $^{\circ}\text{F}$ | |

| Electrical Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Electrical Resistivity | 0.0000142 ohm-cm | 0.0000142 ohm-cm | |

| Descriptive Properties | Value | Comments |
|-----------------------------|-------|----------|
| Deep-Drawing Capability rm | 1.9 | |
| Strain Hardening Exponent n | 0.25 | |

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