

## AK Steel Aluminized Carbon Steel, Commercial Steel (CS 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. May be moderately formed. A specimen cut in any direction can be bent flat on itself without cracking. Information provided by AK Steel

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_AK-Steel-Aluminized-Carbon-Steel-Commercial-Steel-CS-Type-B-Standard-Grade.php](http://www.lookpolymers.com/polymer_AK-Steel-Aluminized-Carbon-Steel-Commercial-Steel-CS-Type-B-Standard-Grade.php)

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	386 MPa	56000 psi	
	71.0 MPa	10300 psi	
	@Temperature 649 °C	@Temperature 1200 °F	
	105 MPa	15200 psi	
	@Temperature 538 °C	@Temperature 1000 °F	
	143 MPa	20700 psi	
	@Temperature 538 °C	@Temperature 1000 °F	
Tensile Strength, Yield	324 MPa	47000 psi	
	55.8 MPa	8090 psi	
	@Temperature 649 °C	@Temperature 1200 °F	
Elongation at Break	34 %	34 %	
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	

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**