

# Algoma AR200 Coil

## Abrasion-Resistant Steel

### FORMABILITY

Cold forming is possible if care is used. Edge preparation is essential and the material temperature should not be less than 20°C (68°F). Hot forming at a temperature of at least 815°C (1,500°F) is recommended. A reduction of hardness may occur.

### CUTTING

Algoma AR200 can be gas cut satisfactorily. However, preheating the surface to 260°C (500°F) is recommended to prevent hardening at cut edges. This hardened edge, if present, may be prone to cracking when subjected to bending during fabrication or to restrained welding conditions.

### SPECIFICATIONS

PROPERTIES	
Type of Steel	Carbon Steel
End Use	Moderate wear application
Coil Thickness	"0.122" (3.1 mm) to 0.377" (9.6 mm) <sup>1</sup> ; 0.190" (4.8 mm) to 0.275" (7.0 mm) <sup>2</sup> . Greater thicknesses may be available upon request."
Coil Width (max)	63" (1,600 mm) <sup>1</sup> ; 75" (1,900 mm) <sup>2</sup>
Width/ Gauge Ratio (max)	475:1 <sup>1</sup> ; 420:1 <sup>2</sup>
Melting Practice	Fine Grain fully killed Practice

CHEMICAL COMPOSITION HEAT ANALYSIS (%)	
C	0.30–0.41
Mn	1.00–1.50
P (Max)	0.025
S (Max)	0.025
Cr (Max)	0.10 <sup>3</sup>
Mo (Max)	0.10 <sup>3</sup>
Si	0.15–0.35
Cu (Max)	0.40
Ni (Max)	0.25
Typical C.E. <sup>4</sup>	0.57
Condition of Supply	As-Rolled (No Heat Treatment Performed)
Typical Surface Brinell Hardness (HB) <sup>5</sup>	210

<sup>1</sup> Produced in DSPC (Direct Strip Production Complex)

<sup>2</sup> Produced in 106" Hot Strip Mill

<sup>3</sup> Residual element. Not intentionally added.

<sup>4</sup>  $C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15$

<sup>5</sup> Algoma AR200 plate is produced to a specified chemical composition only and no specific mechanical properties are intended or implied. Typical value is shown for information purposes only. Mechanical properties and hardness are not reported. Prior notification is required if hardness must be reported.

Algoma AR200 plate is not intended for structural applications and should not be used as load-bearing members.



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