

# Castle 1018

Wrought Low Carbon Steel

A. M. Castle & Co.

**PROSPECTOR**<sup>®</sup>

www.ulprospector.com

## Technical Data

### Product Description

A general purpose low carbon steel with good case hardening qualities. Especially suited to cold forming, bending and welding operations.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Availability	• Asia Pacific • Europe • North America

### Metals General

Forms Available	• Bar-Flats • Bar-Rounds • Bar-Hexagons • Bar-Squares
Metal TypeCold Worked	• Steel - Wrought - Low Carbon

### Metals Type Analysis

	Nominal Value (English)	Nominal Value (SI)
Type Analysis		
Carbon	0.150 to 0.200 %	0.150 to 0.200 %
Manganese	0.600 to 0.900 %	0.600 to 0.900 %
Phosphorus	< 0.0400 %	< 0.0400 %
Sulfur	< 0.0500 %	< 0.0500 %

### Metals Mechanical

	Nominal Value (English)	Nominal Value (SI)
Tensile Strength (Ultimate)	65.0 ksi	448 MPa
Tensile Strength (Yield), 0.2%	45.0 to 55.0 ksi	310 to 379 MPa
Tensile Elongation (Break)	16.0 to 36.0 %	16.0 to 36.0 %
Reduction of Area	40 to 58 %	40 to 58 %

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

