

## Crucible Steel SIL10 Martensitic Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

**Material Notes:**

Information provided by Crucible Specialty Metals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Crucible-Steel-SIL10-Martensitic-Steel.php](http://www.lookpolymers.com/polymer_Crucible-Steel-SIL10-Martensitic-Steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 248	<= 248	
Hardness, Rockwell C	<= 36	<= 36	
Tensile Strength, Ultimate	>= 735.5 MPa	>= 106700 psi	
Tensile Strength, Yield	>= 313.8 MPa	>= 45510 psi	
Elongation at Break	>= 30 %	>= 30 %	
Reduction of Area	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 - 0.45 %	0.30 - 0.45 %	
Chromium, Cr	18 - 20 %	18 - 20 %	
Iron, Fe	>= 66.5 %	>= 66.5 %	As Remainder
Manganese, Mn	0.80 - 1.3 %	0.80 - 1.3 %	
Nickel, Ni	7.5 - 8.5 %	7.5 - 8.5 %	
Silicon, Si	2.75 - 3.25 %	2.75 - 3.25 %	

Descriptive Properties	Value	Comments
Heat Treatment, °C	1100-1180 W.Q.	

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