

## Niagara LaSalle 1212 Cold Finished Steel Bar

Category : Metal , Ferrous Metal , Carbon Steel , AISI 1000 Series Steel

**Material Notes:**

This is basic screw machine steel. The grade is used as a standard of comparison for machinability (1212 is rated as 100%). It machines easily, provides good surface finish and has good brazing properties. This steel is difficult to weld and not suitable for case hardening. Generally used where mechanical properties can be sacrificed for machinability. Information provided by Niagra LaSalle Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Niagara-LaSalle-1212-Cold-Finished-Steel-Bar.php](http://www.lookpolymers.com/polymer_Niagara-LaSalle-1212-Cold-Finished-Steel-Bar.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	167	167	
Tensile Strength	538 MPa	78000 psi	
Tensile Strength, Yield	414 MPa	60000 psi	
Elongation at Break	>= 10 %	>= 10 %	2"
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.13 %	<= 0.13 %	
Iron, Fe	98.52 - 99.07 %	98.52 - 99.07 %	as balance
Manganese, Mn	0.70 - 1.0 %	0.70 - 1.0 %	
Phosphorous, P	0.070 - 0.12 %	0.070 - 0.12 %	
Sulfur, S	0.16 - 0.23 %	0.16 - 0.23 %	

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