

## Niagara LaSalle 1045 Cold Finished Steel Bar

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

**Material Notes:**

This medium carbon steel is used for heat treating (quenching and tempering). Although it has only a fair response to conventional quenching, it is widely used where requirements are not too stringent. It is also used extensively in induction hardening applications. This is not normally considered a screw machine steel and is only fair for brazing and welding. However, it can be forged satisfactorily and is the most common shafting steel in the medium carbon range. Information provided by Niagra LaSalle Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Niagara-LaSalle-1045-Cold-Finished-Steel-Bar.php](http://www.lookpolymers.com/polymer_Niagara-LaSalle-1045-Cold-Finished-Steel-Bar.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	179	179	
Tensile Strength	627 MPa	91000 psi	
Tensile Strength, Yield	531 MPa	77000 psi	
Elongation at Break	>= 12 %	>= 12 %	2"
Reduction of Area	35 %	35 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.43 - 0.50 %	0.43 - 0.50 %	
Iron, Fe	97.7 - 98.97 %	97.7 - 98.97 %	as balance
Manganese, Mn	0.60 - 0.90 %	0.60 - 0.90 %	
Phosphorous, P	<= 0.40 %	<= 0.40 %	
Sulfur, S	<= 0.50 %	<= 0.50 %	

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