

## Niagara LaSalle StressProof® Cold Finished Steel Bar

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

### Material Notes:

StressProof® is made by a patented process which consists of drawing the bar through a special die under heavy draft, then stress relieving it in a precisely controlled furnace. StressProof® offers wearability without case hardening, strength without heat treating, plus excellent machinability and tool life. Other benefits include resistance to fatigue and stress, balanced working, and minimum warpage and distortion. StressProof® can also be induction hardened but should be watched for quench cracks, and, being a resulfurized steel, a magnetic particle inspection operation should be performed after heat treating. Information provided by Niagra LaSalle Corporation

Order this product through the following link:

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

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 793 MPa	>= 115000 psi	
Tensile Strength, Yield	>= 689 MPa	>= 100000 psi	
Elongation at Break	>= 8.0 %	>= 8.0 %	7% min above 3 in
Reduction of Area	>= 25 %	>= 25 %	20% min above 2

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 - 0.48 %	0.40 - 0.48 %	
Iron, Fe	97.15 - 97.86 %	97.15 - 97.86 %	as balance
Manganese, Mn	1.35 - 1.65 %	1.35 - 1.65 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	0.15 - 0.35 %	0.15 - 0.35 %	
Sulfur, S	0.24 - 0.33 %	0.24 - 0.33 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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