



**SIVACO**  
ONTARIO  
A HEICO COMPANY

ISO 9001:2008, ISO 14001:2004 AND OHSAS 18001:2007 REGISTERED

**SIVACO Ontario**  
a Division of SIVACO Wire Group L.P.  
330 Thomas Street  
PO Box 220  
Ingersoll, Ontario CANADA  
N5C 3K5  
(519) 485-4150 Fax (519) 485-3039

# Physical Test Report

WORK ORDER  
**085493**

HEAT NUMBER  
**A11478**

SALES ORDER / RLS  
**054536 / 3**

CERT ID / REV  
**00045820 / 01**

SOLD TO

**G & R Forging**  
**7072 Smith Industrial Drive**  
**McGregor, ON N0R 1J0**  
**Canada**

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	COILS	LADING NO	SHIPMENT DATE					
	<b>12.00-1018</b>	<b>12,435 lbs</b>	<b>6</b>	<b>00057609</b>	<b>05/30/2013</b>					
SPECIFICATION <b>PIQ1018120-20</b> <b>12.00mm (0.4720") 1018 IQ, Clean/Coat, Clean/Lime, G&amp;R Cold Forging, 7213.91.6000</b> <b>Hot Rolled Rods Dia.&lt;14.0mm (0.551"),Further Processed,Carbon &lt; 0.60%</b>										
CUSTOMER REQUIREMENTS										
<b>Chemical (value of 9 = n/a)</b>										
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cu</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>Sn</b>	<b>Al</b>
.16	.72	.010	.016	.19	.19	.07	.11	.019	.009	.004
<b>B</b>	<b>V</b>	<b>N</b>								
.0001	.004	.0066								
<b>Mechanical - Tag Detail</b>										
	<b>DIAs</b>	<b>UTSs</b>								
67405001A	.472	70857								
67405001B	.472	70857								
67405002A	.473	71713								
67405002B	.473	71713								
67405003A	.472	70857								
67405003B	.472	70857								
End of Certification										

I attest that the results are a true and correct copy of the records prepared and maintained by SIVACO Ontario in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier. This test report cannot be reproduced or distributed, except in full, without the written permission of SIVACO Ontario.

Authorized by: Gary Allard, QA Manager