



**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  
**078603**

HEAT NUMBER  
**A10461**

SALES ORDER / RLS  
**049730 / 7**

CERT ID / REV  
**00039395 / 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>20,676 lbs</b>	<b>10</b>	<b>00054564</b>	<b>10/25/2012</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>
.17	.67	.018	.010	.19	.21	.07	.13	.024	.009	.004
<b>B</b>	<b>V</b>	<b>N</b>								
.0001	.002	.0066								
<b>Mechanical - Tag Detail</b>										
	<b>DIAs</b>	<b>UTSs</b>								
371800011A	.471	74627								
371800011B	.471	74627								
371800021A	.474	73654								
371800021B	.474	73654								
371800031A	.473	73421								
371800031B	.473	73421								
371800041A	.473	73421								
371800041B	.473	73421								
371800051A	.472	73714								
371800051B	.472	73714								
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