



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
081119

HEAT NUMBER
W32801

SALES ORDER / RLS
051508 / 5

CERT ID / REV
00041771 / 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 | | | | | |
| | 12.00-1018 | 8,024 lbs | 4 | 00055639 | 01/25/2013 | | | | | |
| SPECIFICATION PIQ1018120-20 12.00mm (0.4720") 1018 IQ, Clean/Coat, Clean/Lime, G&R Cold Forging, 7213.91.6000 Hot Rolled Rods Dia.<14.0mm (0.551"),Further Processed,Carbon < 0.60% | | | | | | | | | | |
| CUSTOMER REQUIREMENTS | | | | | | | | | | |
| Chemical (value of 9 = n/a) | | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Sn | Al |
| .170 | .68 | .009 | .005 | .19 | .04 | .07 | .06 | .005 | .001 | .003 |
| B | V | N | | | | | | | | |
| .0002 | .005 | .0047 | | | | | | | | |
| Mechanical - Tag Detail | | | | | | | | | | |
| | DIAs | UTSs | | | | | | | | |
| 409220091A | .465 | 70082 | | | | | | | | |
| 409220091B | .465 | 70082 | | | | | | | | |
| 409220101A | .472 | 69714 | | | | | | | | |
| 409220101B | .472 | 69714 | | | | | | | | |
| 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