



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
090116

HEAT NUMBER
A13428

SALES ORDER / RLS
057512 / 4

CERT ID / REV
00051370 / 01

SOLD TO

Windsor Machine & Stamping (US) Ltd
26655 NorthLine Road
Taylor, MI 48180
United States
Attn: Quality Assurance

| | | | | | | | | | | |
|--|-----------------|------------------|--------------|-----------------|-------------------|-----------|-----------|-----------|-----------|-----------|
| CUSTOMER P.O. | CUSTOMER PART | QUANTITY | COILS | LADING NO | SHIPMENT DATE | | | | | |
| | IROQUIOS | 8,318 lbs | 4 | 00060402 | 11/29/2013 | | | | | |
| SPECIFICATION PIQ1018130-16 13.00mm (0.5118") 1018 IQ, Clean/Coat, Clean/Phos/Polymer, Windsor Machine & Stamping Ltd, 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 |
| .1800 | .7500 | .0050 | .0130 | .1800 | .1200 | .0400 | .0600 | .0210 | .0080 | .0040 |
| B | V | N | | | | | | | | |
| .0000 | .0030 | .0094 | | | | | | | | |
| Mechanical - Summary | | | | | | | | | | |
| <u>TEST</u> | <u>UNITS</u> | <u>HIGH</u> | <u>LOW</u> | <u>AVERAGE</u> | | | | | | |
| Diameter (inch) | in | .510 | .509 | 0.510 | | | | | | |
| Tensile (psi) | psi | 74201 | 72932 | 73567 | | | | | | |
| 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