



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
064549

HEAT NUMBER
A05312

SALES ORDER / RLS
039631 / 6

CERT ID / REV
00024348 / 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 | 10,076 lbs | 3 | 00047452 | 05/13/2011 | | | | | |
| 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 |
| .1600 | .6400 | .0090 | .0120 | .2000 | .2000 | .0700 | .1200 | .0290 | .0110 | .0030 |
| B | V | N | | | | | | | | |
| .0001 | .0020 | .0090 | | | | | | | | |
| Mechanical - Summary | | | | | | | | | | |
| <u>TEST</u> | <u>UNITS</u> | <u>HIGH</u> | <u>LOW</u> | <u>AVERAGE</u> | | | | | | |
| Diameter (inch) | in | .513 | .510 | 0.512 | | | | | | |
| Tensile (psi) | psi | 73421 | 72569 | 73014 | | | | | | |
| 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: Graham Benoit, QA Manager