



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
A13363

SALES ORDER / RLS
057512 / 2

CERT ID / REV
00051368 / 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	2,182 lbs	1	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
.1700	.6700	.0060	.0150	.2400	.1300	.0500	.0600	.0230	.0070	.0030
B	V	N								
.0001	.0030	.0087								
Mechanical - Summary										
<u>TEST</u>	<u>UNITS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>						
Diameter (inch)	in	.510	.510	0.510						
Tensile (psi)	psi	72442	71953	72116						
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