



ISO 9001:2008, ISO 14001:2004 AND OHSAS 18001:2007 REGISTERED

SIVACO Ontario
 a Division of SIVACO Wire Group L.P.
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Physical Test Report

WORK ORDER
071060

HEAT NUMBER
A07231

SALES ORDER / RLS
044224 / 3

CERT ID / REV
00031419 / 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	3,932 lbs	2	00050789	01/23/2012					
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	.6900	.0080	.0090	.2300	.1800	.0700	.0800	.0280	.0100	.0050
B	V	N								
.0000	.0020	.0082								
Mechanical - Summary										
<u>TEST</u>	<u>UNITS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>						
Diameter (inch)	in	.513	.513	0.513						
Tensile (psi)	psi	68699	68215	68457						
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