



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
082961

HEAT NUMBER
A11067

SALES ORDER / RLS
052837 / 4

CERT ID / REV
00043574 / 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	16,390 lbs	8	00056461	03/20/2013					
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
.18	.65	.012	.016	.25	.19	.09	.18	.019	.009	.004
B	V	N								
.0007	.008	.0070								
Mechanical - Tag Detail										
	DIAs	UTSs								
433280071A	.468	79070								
433280071B	.468	79070								
433280081A	.468	78488								
433280081B	.468	78488								
433280091A	.468	78488								
433280091B	.468	78488								
433280101A	.468	78488								
433280101B	.468	78488								
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