

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 **077738**

HEAT NUMBER A10192

SALES ORDER / RLS 049149 / 2 CERT ID / REV 00038526 / 01

SOLD TO

G & R Forging 7072 Smith Industrial Drive McGregor, ON N0R 1J0 Canada

CUSTOMER P.O.	CUSTOMER PART 12.00-1018				QUANTI 25,122 II		COILS LADING NO 12 00054146		SHIPMENT DATE 09/24/2012	
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 .16	Mn .65	P .012	s .010	si .24	Cu .21	Ni .07	Cr .11	Mo .020	Sn .011	A1 .005
.0000	.002	N .0058								
Mechanical - Tag Detail										
			UTSs							
352950211A	.470 71470									
352950211B			71470							
352950221A 352950221B			73654 73654							
352950221B			71183							
352950231R			71183							
352950231B			72000							
352950241B			72000							
352950261A			73714							
352950261B			73714							
352950271A		.471 7	72331							
352950271B		.471 7	72331							
				End of 0	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