



**SIVACO**  
ONTARIO  
A HEICO COMPANY

ISO 9001:2000, 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  
**053129**

HEAT NUMBER  
**A01029**

SALES ORDER / RLS  
**031828 / 1**

CERT ID / REV  
**00013947 / 01**

SOLD TO

**Pioneer Polymers Inc.**  
**14 Industrial Park Rd**  
**P.O. Box 148**  
**Tilbury, ON N0P 2L0**  
**Canada**  
**Attn: Quality Assurance**

CUSTOMER P.O.	CUSTOMER PART	QUANTITY	COILS	LADING NO	SHIPMENT DATE					
	<b>13.50-1018</b>	<b>2,494 lbs</b>	<b>1</b>	<b>00042901</b>	<b>05/14/2010</b>					
SPECIFICATION <b>PIQ1018135-24</b> <b>13.50mm (0.5310") 1018 IQ, Clean/Coat, Clean/Lime (MOD), Pioneer Polymers Inc., 7213.91.6000</b> <b>Hot Rolled Rods Dia.&lt;14.0mm (0.551"),Further Processed,Carbon &lt; 0.60%</b>										
CUSTOMER REQUIREMENTS										
<b>Chemical (value of 9 = n/a)</b>										
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cu</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>Sn</b>	<b>Al</b>
.1600	.8100	.0090	.0100	.1800	.2200	.0700	.1700	.0170	.0110	.0020
<b>B</b>	<b>V</b>	<b>N</b>								
.0001	.0020	.0078								
<b>Dimensional</b>										
<u>TEST</u>	<u>UNITS</u>	<u>HIGH</u>	<u>LOW</u>	<u>AVERAGE</u>						
<b>Diameter (inch)</b>	<b>in</b>	<b>.533</b>	<b>.533</b>	<b>0.533</b>						
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