



CHARTER WIRE

A Division of Charter Manufacturing Co., Inc.
3700 W. Milwaukee Road
Milwaukee, Wisconsin 53208-4251
(414) 390-3000
(414) 390-3031 Fax

DATE: 08/19/2010

CERTIFICATE OF MATERIAL AND SPECIFICATION

CUSTOMER: CENTRAL STEEL & WIRE
CUSTOMER'S P.O. NO: CHI 71941
Customer Item: IAC-08526
SIZE: .125 X .750
GRADE: AISI 1018 Cold Rolled
HEAT NO: 10079490

SALES ORDER NO: s56148
WORKORDER: 04260068
ITEM NO: STK0034
SPEC 1: ASTM A108
SPEC 2: F-36 DTD 11/22/06
SPEC 3:

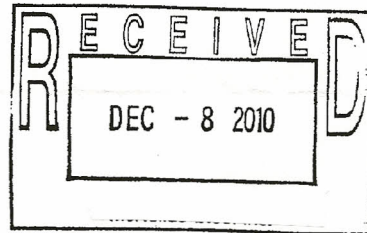
CHEMICAL ANALYSIS: C: .1700 Mn .6600 P: .0090 S: .0160
AL .0010 B: .0001 Cr .1200 Cu .1700
Mo .0200 N: .0080 Ni .0700 Si .2000
Sn .0090 Ti .0010 V: .0010

MILL SPECIFICATIONS: Hot Roll Source: CHARTER STEEL SAUKVILLE (USA)
Melt Source: CHARTER STEEL SAUKVILLE (USA)
Casting Practice: STRAND
Killing Practice/Grainsize: SILICON KILLED COARSE GRAIN
Reduction Ratio: 129:1

C=Carbon
Mn=Manganese
P=Phosphorus
S=Sulphur
Al=Aluminium
B=Boron
Cr=Chromium
Cu=Copper
Mo=Molybdenum
N=Nitrogen
Ni=Nickel
Si=Silicon
Sn=Tin
Ti=Titanium
V=Vanadium

00207

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HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED BY CHARTER FROM OUR RAW MATERIAL SUPPLIER.

[Signature]
QUALITY ASSURANCE/CONTINUOUS IMPROVEMENT MANAGER

ORIGINAL