

encoremetals

CERTIFICATE OF TEST

Page 01 of 02

Certification Date
24-JUL-2018

CUSTOMER ORDER NUMBER

1687

ENCORE METALS DIVISION OF RMCL
7805 - 51ST STREET S.E.
CALGARY AB T2C 2Z3

Invoice Number
S219436

CUSTOMER PART NUMBER

157052

SOLD TO: TECHNOWORX INC
4788 50 AVENUE SE
CALGARY AB T2B 3R4

SHIP TO: TECHNOWORX INC
4788 50 AVENUE SE
CALGARY AB T2B 3

Description: 4130 CD SMLS - 80KSI - ASTM A519
3.063 OD X 1.935 ID S/C 1'8.0" (20.0") Line Total: 1.6667 FT
HEAT: 605122 ITEM: 157052

Specifications:

ASTM A519 06 ASTM A450 ASTM E213
ASTM E10 ASTM E112 ASTM A370
ASTM E23

CHEMICAL ANALYSIS

C	SI	MN	P	S	CR	MO	NI
0.30	0.26	0.54	0.005	0.003	0.88	0.18	0.08
CU							
0.11							

RCPT: R146418

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	132420.0	147504.0	22.0		332

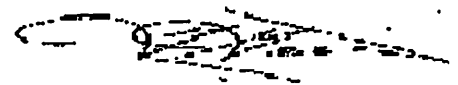
GRAIN SIZE :5 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.



PURCHASING MANAGER

encoremals

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Page 02 of 02

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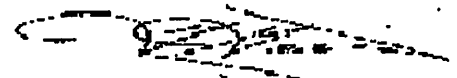
THERMAL TREATMENT: OK
QUENCHING TEMP 880'C HOLDING 25 SEC COOLING BY WATER
TEMPERING 550'C HOLD TIME 75 SEC COOLING AIR

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