



430 Hamilton Rd Bossier City, LA 71111

MATERIAL TEST REPORT

Product:CA 5.500 0.304 17.00 P110HC LTC R3
SMLS CENT PRIME

Thread Type:LTC

Sales Order:SO0001414

Heat:YD03284

Lot:YD03284-471

Purchase Order:SBB-0062

Specification:API 5CT Latest Edition

-----Sold To -----

SB NAVITAS
480, 435 - 4TH AVE SW
CALGARY AB
Calgary , CA

CHEMICAL ANALYSIS

	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	AL	V	B	Cb	Ti	Ca	N	O	CEQ	DI	PrM
HEAT	0.25	1.39	0.014	0.007	0.21	0.07	0.06	0.40	0.02		0.032	0.005	0.0017		0.030				0.575		
CHECK	0.251	1.367	0.010	0.003	0.204	0.066	0.052	0.397	0.015	0.006	0.035	0.006	0.0015		0.041	0.0003			0.570		
CHECK	0.253	1.385	0.010	0.002	0.209	0.065	0.051	0.401	0.015	0.006	0.037	0.007	0.0016		0.042	0.0005			0.576		

MECHANICAL PROPERTIES

<u>Test</u>	<u>Type</u>	<u>Size</u>	<u>Orient</u>	<u>Yield KSI</u>	<u>Tensile KSI</u>	<u>Elong in 2"</u>	<u>Y/T Ratio</u>	<u>Collapse, PSI</u>	12200	<u>Hydrotest, PSI</u>	11600						
4L09429	Strip	1"	Long.	124.4	131.82	21.25	0.9437	<u>Flattening</u>	OK	<u>Hold Time:</u>	5 SEC						
				<u>Impact Tests</u>			<u>Hardness</u>										
<u>Test</u>	<u>Loc</u>	<u>Size</u>	<u>Temp</u>	<u>Notch</u>	<u>Energy (AVG)</u>	<u>%Shear</u>	<u>Scale</u>	<u>Lat Exp.</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>	<u>Scale</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>
	L	3/4	32		57	90		HRC				30.58					

Inspections Performed

Remarks

From the office of:

Test

Type

Pass

Cal.

Test

Type

Pass

Release #

SO0001414

Processor:


BMG

W/O #:

4611-010

Rolled material supplied by:

BMG



This is to certify that the product described with was manufactured, supplied, tested, and/or inspected in accordance with the specification and the order, and fulfills the requirements in such respect.