

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:	YD03650	Lot:	YD03650-445	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	1.42	0.013	0.005	0.22	0.07	0.05	0.39	0.02		0.03	0.005	0.0016		0.032				0.578		
CHECK	0.254	1.398	0.010	0.001	0.195	0.069	0.042	0.382	0.013	0.010	0.031	0.006	0.0013		0.044	0.0015			0.574		
CHECK	0.257	1.422	0.009	0.001	0.195	0.068	0.040	0.384	0.012	0.010	0.030	0.006	0.0011		0.046	0.0013			0.581		

MECHANICAL PROPERTIES

Test 4E10701P T	Type Strip	Size 1"	Orient Long.	Yield KSI	Tensile KSI	Elong in 2"	Y/T Ratio		Collapse, PSI		12200	Hydrotest, PSI		11600			
				116.58	127.35	26.2	0.9154		Flattening		OK	Hold Time:		5 SEC			
				Impact Tests			Hardness										
Test	Loc	Size	Temp	Notch	Energy (AVG)	%Shear	Scale	Lat Exp.	I.D.	M.W.	O.D.	Mean #	Scale	I.D.	M.W.	O.D.	Mean #
	L	3/4	32		71	90		HRC				26.81					

Inspections Performed							Remarks					From the office of:				
<u>Test</u>	<u>Type</u>	<u>Pass</u>	<u>Cal.</u>	<u>Test</u>	<u>Type</u>	<u>Pass</u>	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.				