

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:	YD03664	Lot:	YD03664-441	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	0.26	1.39	0.01	0.004	0.21	0.07	0.06	0.38	0.02		0.03	0.005	0.0018		0.03				0.581		
CHECK	0.256	1.389	0.011	0.002	0.201	0.073	0.044	0.378	0.013	0.005	0.031	0.006	0.0010		0.045	0.0014			0.574		
CHECK	0.264	1.396	0.010	0.002	0.206	0.074	0.044	0.382	0.014	0.005	0.032	0.006	0.0012		0.046	0.0019			0.584		

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>			Collapse, PSI		12200	Hydrotest, PSI		11600			
4W10620P T	Strip	1"	Long.	122.35	130.26	21.45	0.9393			Flattening		OK	Hold Time:		5 SEC			
				Impact Tests			Hardness											
<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		77	80		HRC				27.26						

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.											