

CHAPTEL STEEL CO.

PO/Rel

QUALITY CONTROL APPROVED

Certificate of Mill Test Results

PHL-000000-000

Pg 1/1

PART NO.

FOSTER-PREEM



MATERIAL TEST REPORT

SOLD TO:
 CHAPEL STEEL COMPANY
 P.O. BOX 1000
 SPRING HOUSE, PA

ASTM A588-94 GRADE A, 1995 ED.
 ASTM A588-94 GRADE B, 1995 ED.

MILL ORDER	BILL OF LADING	CUSTOMER P.O. NO.	DATE
176948	220029	PHL-5954	09/21/05

Unless otherwise specified, the following conditions apply: 1. Material is 100% melted and manufactured in the USA. 2. Mercury column or alpha source methods have not been used. 3. Test piece serial # represents actual plate lot(s); not necessarily plate shipped (except PIV where only plate is listed)

HEAT	CHEMICAL ANALYSIS																
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	V	Nb	N	As _{tot}	B	
1U318	0.14	0.89	0.007	0.022	0.39	0.29	0.11	0.52	0.029	0.028	0.009	0.032	0.004	0.011	0.008	0.002	0.0006
1U324	0.14	0.88	0.005	0.013	0.40	0.27	0.13	0.52	0.031	0.021	0.008	0.041	0.003	0.010	0.008	0.003	0.0006
1U345	0.15	0.89	0.010	0.017	0.38	0.31	0.12	0.56	0.031	0.023	0.011	0.041	0.005	0.010	0.008	0.003	0.0006

HEAT	NO. OF PCE	DIMENSION	TENSILE TESTS				IMPACT TESTS				
			TENSILE (KSI)	YIELD (KSI)	ELONG %	BEND (R)	FT-LBS	MILS LAT EXP	% SHEAR		
1U318	2	0.3750 96.0000	86	71	17	8					
1U324	2	0.3750 96.0000	85	71	18	8					
1U324	-	0.3750 96.0000	81	55	28	2					
1U345	3	0.3750 96.0000	83	69	20	8					
1U345	-	0.3750 96.0000	80	62	25	2					

OTHER TESTS / INFORMATION

I CERTIFY THE ABOVE RESULTS TO BE CORRECT AS CONTAINED IN THE RECORDS OF THE CORPORATION

D. J. Ceramva
 DAVID J. CERAMVA
 CHIEF METALLURGIST