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C e r t i f i c a t e O f T e s t s

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02/08/2002

Sold To 00081758
CCC STEEL GMBH
PALMAYLLE 57
D-22757
HAMBURG TX

Ship To: 00081759
CCC STEEL
C/O BEST BORDER CARGO
1502 ISLAND STREET
LAREDO TX 78041

Invoice:

Purchase Order: VERBAL

Item Number	Description	Weight
388322L21P	ASTM A53B B-5/B" X.322" WALL(28.58#) LAC, 21' UF, FE	28.5800 LB

* Heat #: 815364 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.060	0.990	0.010	0.005	0.041	0.037	0.037	0.013	0.188	0.020	0.003	0.014
C	0.051	0.870	0.007	0.003	0.030	0.040	0.030	0.016	0.189	0.018	0.001	0.012
C	0.062	0.880	0.007	0.006	0.037	0.041	0.032	0.017	0.192	0.019	0.001	0.013

Mechanical Properties (ksi):

YS: 58.10 TS: 67.10 WTS: 70.00 EL: 43% HRB: 84

* Heat #: 815365 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.060	0.970	0.010	0.002	0.042	0.044	0.034	0.012	0.201	0.023	0.003	0.014
C	0.074	0.820	0.007	0.007	0.036	0.050	0.037	0.015	0.202	0.014	0.001	0.013
C	0.067	0.850	0.007	0.006	0.011	0.035	0.017	0.005	0.032	0.021	0.001	0.013

Mechanical Properties (ksi):

YS: 57.90 TS: 65.00 WTS: 70.80 EL: 41% HRB: 83

* Heat #: 911043 *

Chem Analysis (%):

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* Heat #: 911043 *

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.130	0.600	0.019	0.012	0.010	0.010	0.010	0.000	0.300	0.044	0.000	0.000
C -	0.134	0.790	0.012	0.007	0.007	0.015	0.019	0.007	0.202	0.022	0.001	0.002
C -	0.135	0.810	0.016	0.007	0.003	0.015	0.018	0.007	0.305	0.041	0.001	0.002

Mechanical Properties (ksi):

YS: 44.30 TS: 65.30 WTS: 68.90 EL: 33% HRB: 80

* Heat #: 911129 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.140	0.650	0.016	0.012	0.010	0.010	0.010	0.000	0.300	0.056	0.000	0.000
C -	0.153	0.620	0.012	0.009	0.061	0.032	0.017	0.012	0.295	0.046	0.001	0.002
C -	0.152	0.620	0.012	0.009	0.061	0.032	0.017	0.012	0.293	0.047	0.001	0.002

Mechanical Properties (ksi):

YS: 59.20 TS: 66.00 WTS: 68.40 EL: 37% HRB: 82

* Heat #: 92B036 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.130	0.790	0.025	0.012	0.010	0.010	0.010	0.000	0.250	0.036	0.000	0.000
C -	0.150	0.740	0.017	0.009	0.007	0.012	0.014	0.007	0.237	0.025	0.001	0.002
C -	0.155	0.740	0.017	0.010	0.007	0.012	0.014	0.007	0.237	0.026	0.001	0.002

Mechanical Properties (ksi):

YS: 55.30 TS: 65.10 WTS: 71.20 EL: 38% HRB: 84

* Heat #: 923038 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.130	0.720	0.021	0.020	0.010	0.010	0.010	0.000	0.240	0.046	0.000	0.000
C -	0.140	0.690	0.014	0.017	0.006	0.012	0.011	0.006	0.217	0.040	0.001	0.002
C -	0.136	0.690	0.014	0.017	0.006	0.011	0.011	0.006	0.219	0.041	0.001	0.002

Mechanical Properties (ksi):

YS: 55.50 TS: 64.50 WTS: 68.90 EL: 42% HRB: 83

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TEXTUBE

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(713) 668-4351 PHONE

CUSTOMER Purchase Order: VERBAL
WWW.TEXTUBE.COM

* Heat #: 936707 *

* Heat #: 936707 *

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.130	0.800	0.024	0.012	0.010	0.010	0.010	0.000	0.300	0.050	0.000	0.000
C	0.156	0.730	0.017	0.010	0.010	0.019	0.019	0.008	0.275	0.041	0.001	0.002
C	0.139	0.760	0.015	0.015	0.008	0.016	0.017	0.008	0.284	0.049	0.001	0.002

Mechanical Properties (ksi):

YS: 58.20 TS: 65.80 WTS: 73.20 EL: 17% HRB: 83

HYDROSTATIC TEST PRESSURE (psi): 2,350

1.5" TRANSVERSE STRIP SPECIMEN.

THIS MATERIAL MEETS ASTM A53 GRADE B SPEC.

THIS MATERIAL MEETS ASME SA-53B SPEC.

THIS MATERIAL IS ERW PIPE.

FLATTENING TEST PASSED.

THIS MATERIAL WAS MANUFACTURED IN THE U.S.A..

THIS MATERIAL IS IN COMPLIANCE WITH NACE STANDARD MR0175.

ALL STANDARDS ARE LATEST REVISION

The above analyses and tensile properties
are correct to the best of my knowledge
and belief

James Landy
Quality Control Dept