



RA 8015710  
 HOUSTON, TEXAS 77255-5710  
 (713) 486-4351 PHONE  
 (713) 486-3222 FAX  
 www.mtr-usa.com

Certificate of Tests

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 01/29/2002

Sold To 00081758  
 CCC STEEL GMBH  
 PALMAYILLE 67  
 D-22767  
 HAMBURG

TX

5019438  
 Ship To: 00081759  
 CCC STEEL  
 C/O BEST BORDER CARGO  
 1502 ISLAND STREET  
 LAREDO TX 76041

Invoice:

Purchase Order: VERBAL

Item Number

Description

3b6250121p

ASTM A53B 6-5/8" X .250"  
 WALL (17.04#) LAC. 21' UP, PE 17.0400 LB

\*\*\*\*\*  
 \* Heat #: 111047 \*  
 \*\*\*\*\*

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.130	0.630	0.007	0.001	0.002	0.014	0.007	0.006	0.230	0.031	0.001	0.000
C	0.133	0.620	0.006	0.001	0.002	0.013	0.007	0.006	0.238	0.025	0.003	0.002
C	0.130	0.640	0.006	0.001	0.002	0.013	0.007	0.006	0.243	0.027	0.001	0.002

Mechanical Properties (ksi):

YS: 56.00 TS: 67.60 EL: 37% HRB: 77

\*\*\*\*\*  
 \* Heat #: 202447 \*  
 \*\*\*\*\*

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.130	0.650	0.008	0.001	0.002	0.012	0.002	0.004	0.170	0.012	0.001	0.000
C	0.159	0.610	0.012	0.002	0.002	0.011	0.002	0.004	0.175	0.025	0.001	0.002
C	0.155	0.630	0.012	0.002	0.002	0.010	0.003	0.004	0.176	0.026	0.001	0.002

Mechanical Properties (ksi):

YS: 52.40 TS: 66.40 EL: 30% HRB: 79

\*\*\*\*\*  
 \* Heat #: 211589 \*  
 \*\*\*\*\*

Chem Analysis (%):

P.O. BOX 55710  
HOUSTON, TEXAS 77255-5710  
(713) 848-4351 PHONE  
(713) 645-3222 FAX

Purchase Order: VERBAL

\*\*\*\*\*  
\* Heat #: 211588 \*  
\*\*\*\*\*

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.079	1.200	0.016	0.006	0.029	0.022	0.013	0.016	0.193	0.044	0.003	0.018
C	0.084	1.010	0.008	0.003	0.017	0.014	0.009	0.004	0.187	0.033	0.001	0.012
C	0.080	1.090	0.008	0.003	0.017	0.014	0.011	0.003	0.196	0.034	0.001	0.013

Mechanical Properties (ksi):

YS: 63.70 TS: 74.90 EL: 30% HRB : 82

\*\*\*\*\*  
\* Heat #: 212202 \*  
\*\*\*\*\*

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.140	0.640	0.009	0.003	0.002	0.017	0.005	0.006	0.159	0.023	0.001	0.000
C	0.151	0.580	0.008	0.003	0.002	0.015	0.004	0.005	0.159	0.023	0.001	0.002
C	0.155	0.580	0.008	0.003	0.002	0.015	0.004	0.005	0.160	0.023	0.001	0.002

Mechanical Properties (ksi):

YS: 57.40 TS: 70.50 EL: 34% HRB : 53

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\* Heat #: 312180 \*  
\*\*\*\*\*

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.140	0.800	0.010	0.003	0.010	0.015	0.046	0.009	0.173	0.029	0.001	0.000
C	0.153	0.760	0.010	0.004	0.009	0.015	0.043	0.009	0.180	0.026	0.001	0.002
C	0.152	0.750	0.010	0.004	0.009	0.015	0.042	0.009	0.177	0.026	0.001	0.002

Mechanical Properties (ksi):

YS: 66.10 TS: 76.00 EL: 31% HRB : 85

\*\*\*\*\*  
\* Heat #: 312181 \*  
\*\*\*\*\*

Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L	0.130	0.660	0.009	0.001	0.005	0.021	0.020	0.007	0.151	0.033	0.001	0.000
C	0.150	0.600	0.009	0.003	0.004	0.019	0.010	0.006	0.162	0.039	0.001	0.002
C	0.149	0.600	0.009	0.003	0.003	0.020	0.011	0.006	0.163	0.028	0.001	0.002

Mechanical Properties (ksi):

YS: 59.30 TS: 70.60 EL: 35% HRB : 81

**TEKTRON**

PO BOX 26710  
HOUSTON, TEXAS 77255-5710  
(713) 645-4351 PHONE  
(713) 645-4222 FAX  
www.tektron.com

Customer Purchase Order: VERBAL

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\* Heat #: 502431 \*  
\*\*\*\*\*  
\* Heat #: 502431 \*  
\*\*\*\*\*

Chem. Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.150	0.630	0.009	0.002	0.003	0.015	0.003	0.005	0.220	0.042	0.001	0.000
C -	0.173	0.620	0.014	0.002	0.002	0.011	0.003	0.004	0.222	0.034	0.001	0.002
C -	0.172	0.610	0.013	0.002	0.002	0.011	0.003	0.004	0.220	0.023	0.001	0.002

Mechanical Properties (ksi):

YS: 55.80 TS: 70.40 EL: 33% HRB : 85

\*\*\*\*\*  
\* Heat #: 612347 \*  
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Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.120	0.630	0.010	0.002	0.004	0.010	0.017	0.007	0.180	0.035	0.001	0.000
C -	0.129	0.560	0.010	0.003	0.003	0.012	0.014	0.005	0.179	0.030	0.001	0.002
C -	0.131	0.570	0.009	0.003	0.004	0.012	0.015	0.006	0.183	0.030	0.001	0.002

Mechanical Properties (ksi):

YS: 58.70 TS: 69.10 EL: 36% HRB : 84

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\* Heat #: c26627 \*  
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Chem Analysis (%):

	C	Mn	P	S	Ni	Cr	Cu	Mo	Si	Al	V	Nb
L -	0.070	1.020	0.011	0.006	0.020	0.340	0.010	0.010	0.040	0.022	0.005	0.020
C -	0.088	1.030	0.014	0.005	0.002	0.032	0.009	0.004	0.033	0.023	0.001	0.013

Mechanical Properties (ksi):

YS: 65.40 TS: 73.80 EL: 30% HRB : 87

Comments

HYDROSTATIC TEST PRESSURE (psi): 2,380  
1" STRIP SPECIMEN.  
THIS MATERIAL MEETS ASTM A53 GRADE B SPEC.

# TEXTUBE

P.O. BOX 21710  
HOUSTON, TEXAS 77255 9710  
(713) 889-4381 PHONE  
(713) 883-3222 FAX  
www.textube.com

----- C o m m e n t s -----

THIS MATERIAL MEETS ASME SA-53-B 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.

THIS MATERIAL PASSED THE NDE INSPECTION USING THE EDDY CURRENT METHOD.

ALL STANDARDS ARE LATEST REVISION.

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

  
Quality Control Test