

MILL TEST & INSPECTION CERTIFICATE

ACCORDING TO EN 10204 3.1



BOTH-WELL (TAIZHOU) STEEL FITTINGS CO.,LTD.

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An ISO 9001 : 2015 Registered Manufacturer

CUSTOMER EMERTAT DELTA CO.,LTD
ORDER NO. ED1390084
CERT NO. 2210024
INVOICE NO. BW22070012
L/C NO.
DATE 11/16/22
ORIGIN CHINA

DESC/GRADE OR SPECIFICATION NO. 90D ELBOW 1" 3000# SW	
ITEM 0510	HEAT NO. D008
RAW HEAT NO. 09709262Y	QTY 172 PC

CHEMICAL COMPOSITION (%) & MECHANICAL PROPERTIES.

C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V
0.190	0.220	0.970	0.014	0.005	0.080	0.110	0.050	0.010	0.004
MIN -	0.150	0.600	-	-	-	-	-	-	-
MAX 0.300	0.300	1.350	0.035	0.040	0.400	0.300	0.400	0.120	0.080
Cb(Nb)	N	Al	Ti	Zr	CE				
0.004	-	-	-	-	0.385				
MIN -	-	-	-	-	0.47				
MAX 0.020	-	-	-	-	-				
T.S.(KSI)	Y.S.(KSI)	YS 0.2%(KSI)	EL(%)	R of A(%)	HARDNESS 1 (HBW)	HARDNESS 2 (HBW)	CHARNY IMPACT		
76.6	-	50.3	34.4	68.1	139	142	1	2	3
MIN 70.0	-	36.0	22.0	30.0	-	-	48	101	36
MAX 95.0	-	-	-	-	197	197	AVG. 61.667		

REMARK

HEAT TREATED QUENCHED:900°C TEMPERED:670°C	SPECIFICATION:
MERCURY FREE	ASTM A350/A350M-18
FREE OF RADIATION CONTAMINATION	ASME SA350-2019 ED
CONFORMS TO NACE MR0175-15/MR0103-15	LF2-Class1
	DIMENSION:
	ASME B16.11-2016
	SURFACE:
	BY VISUAL...GOOD

WE CERTIFY THE ABOVE MENTIONED FITTINGS HAVE BEEN MANUFACTURED, SAMPLED, TESTED, AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN.

Peng. Sha.
Q.C. MANAGER

H. Zhang
INSPECTOR