

ORIGINAL



ZIBO YUANFENG METAL PRODUCTS LTD

NO.113 LUSHAN ROAD LINZI ZIBO CHINA 255418
 PH. 86533624972 FAX 865323625000
 (CERTIFICATE TO EN 10204/DIN 50049 3.1.B.)



QUALITY CERTIFICATE

DATE: APR 18, 2002
 NO: YMP02026

Customer: TUBOS MONTERREY,S.A.DE C.V.
 Order No.: B-079

Raw Material Specification		Commodity Specification		Specification for Inspection		Raw Material Manufacturer	
ASTM A108 GR.B SEAMLESS STEEL PIPE		ASTM A234-97 WPB ASME SA234-97 WPB		ASME B16.9-1993 ASME B16.28-1994		BAOSTEEL GROUP, SHANGHAI	
Product Description	Heat No.	Quantity (pcs)	Visual Inspection	Dimensional Inspection	Hardness Max. 197Hb	Heat Treatment (Note 1)	
TEE SCH40	1.1/4" 704E	150	GOOD	GOOD	<197	N	
TEE SCH40	2" 706E	350	GOOD	GOOD	<197	N	
TEE SCH40	2.1/2" 707E	100	GOOD	GOOD	<197	N	
TEE SCH40	3" 708E	300	GOOD	GOOD	<197	N	
TEE SCH40	4" 709E	100	GOOD	GOOD	<197	N	
TEE SCH40	6" 711E	50	GOOD	GOOD	<197	N	
CAP SCH40	2.1/2" 707C	50	GOOD	GOOD	<197	N	
CAP SCH40	5" 710C	50	GOOD	GOOD	<197	N	
CAP SCH40	6" 711C	100	GOOD	GOOD	<197	N	
CAP SCH40	8" 712C	50	GOOD	GOOD	<197	N	
CON REDUCER SCH40	1.1/4X1" 704E	100	GOOD	GOOD	<197	N	
CON REDUCER SCH40	2X1" 706E	150	GOOD	GOOD	<197	N	
CON REDUCER SCH40	2X1.1/2" 706E	150	GOOD	GOOD	<197	N	
CON REDUCER SCH40	2.1/2X1.1/2" 707E	10	GOOD	GOOD	<197	N	
CON REDUCER SCH40	2.1/2X2" 707E	20	GOOD	GOOD	<197	N	
CON REDUCER SCH40	3X1.1/4" 708E	20	GOOD	GOOD	<197	N	
CON REDUCER SCH40	3X2" 708E	150	GOOD	GOOD	<197	N	
CON REDUCER SCH40	3X2.1/2" 708E	30	GOOD	GOOD	<197	N	
CON REDUCER SCH40	4X1.1/2" 709E	30	GOOD	GOOD	<197	N	
CON REDUCER SCH40	4X2" 709E	200	GOOD	GOOD	<197	N	

Heat No.	Tension Test (Note 2)			Chemical Composition %										
	YS-Psi	TS-Psi	E-%	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb
Min.	35000	60000	30		0.10	0.29								
Max.		85000		0.30		1.06	0.060	0.058	0.40	0.15	0.40	0.40	0.08	0.02
704E	48575	69600	38	0.19	0.24	0.57	0.013	0.015	0.020	-	0.020	0.010	-	-
706E	54375	74675	34	0.20	0.28	0.54	0.009	0.003	0.03	-	0.04	0.05	-	-
707E	50750	74675	36	0.18	0.25	0.53	0.009	0.005	0.04	-	0.03	0.10	-	-
708E	50025	70325	35	0.19	0.25	0.56	0.010	0.006	0.06	-	0.08	0.08	-	-
709E	47850	68150	34	0.18	0.24	0.54	0.007	0.002	0.05	-	0.04	0.08	-	-
711E	45675	66700	34	0.18	0.21	0.54	0.007	0.01	0.03	-	0.04	0.05	-	-
707C	51475	70325	30	0.18	0.18	0.38	0.011	0.007	-	-	-	-	-	-
710C	44225	67425	31	0.21	0.21	0.52	0.015	0.020	-	-	-	-	-	-
711C	44225	67425	31	0.21	0.21	0.52	0.015	0.020	-	-	-	-	-	-
712C	44225	67425	31	0.21	0.21	0.52	0.015	0.020	-	-	-	-	-	-

Note 1. HF: Hot formed (780/980 °C) and cooled in still air. N: Normalized (890/920 °C)

Note 2. YS=Yield Strength TS=Tensile Strength E=Elongation

We hereby certify that the products detailed herein have been manufactured and inspected in accordance with the specifications concerned and also with the purchaser's requirements and that the test results shown herein are correct.

淄博元丰金属制品有限公司
 ZIBO YUANFENG METAL PRODUCTS CO., LTD

QUALITY ASSURANCE MANAGER