

MILL'S QUALITY CERTIFICATES



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CUSTOMER : DUFERCO SA

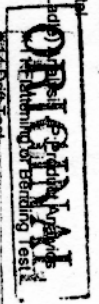
TYPE OF PIPE END	DIMENSION (OUTDIA. X THICK. X LENGTH)	QUANTITY (PCS)	WEIGHT (KG)	HYDRO-STATIC TEST (Kg/cm ² PSI)	HEAT-NO.	PHYSICAL PROPERTIES			CHEMICAL COMPOSITION										IMPACT TEST (0°C)	REMARK			
						YIELD STRENGTH	TENSILE STRENGTH	(EL)	C	SI	Mn	P	S	Cu	NI	Cr	Mo	Nb			V	Ti	B
※1	※2	※3	※4	※5		YIELD STRENGTH	TENSILE STRENGTH	(EL)	※6	※7	※8	※9	※10	※11	※12	※13	※14	※15	※16	※17			
BPE NB	10"X10" X 0.250" X 40'	172	101,706	✓	C061201	46,397	65,971	35	H	17	2	58	15	14									
BPE NB	10"X10" X 0.375" X 40'	120	104,315	✓	C061204	46,397	66,696	29	H	19	2	56	13	14									
BPE NB	10"X10" X 0.500" X 40'	88	99,672	✓	H060901	53,936	67,421	23	H	17	9	46	16	4									
BPE NB	12"X4" X 0.250" X 40'	168	78,653	✓	C070104	46,252	62,346	31	H	12	1	63	15	7									
BPE NB	12"X4" X 0.375" X 40'	124	84,812	✓	H061108	46,542	63,506	24	H	13	2	55	12	8									
BPE NB	12"X8" X 0.375" X 40'	120	104,315	✓	C061204	46,397	66,696	29	H	19	2	56	13	14									
BPE NB	12"X8" X 0.500" X 40'	27	30,581	✓	H060901	53,936	67,421	23	H	17	9	46	16	4									
BPE NB	12"X8" X 0.500" X 40'	41	46,438	✓	SQ94007	46,107	65,391	28	H	18	T	76	11	6									
BPE NB	6"X6" X 0.313" X 40'	78	32,999	✓	SP68757	47,557	66,261	25	H	19	1	86	12	7									
BPE NB	6"X6" X 0.375" X 40'	106	52,857	✓	SR20637	46,107	66,261	26	H	16	1	32	13	3									
BPE NB	6"X6" X 0.375" X 40'	60	29,919	✓	H060605	52,342	63,071	27	H	16	1	81	9	6									

NOTE 1 ※1 Type of pipe End	NOTE 10 VISUAL & DIMENSION TEST GOOD	NOTE 11 FLATTENING (B) TEST	NOTE 12 WELD DUCTILITY TEST	NOTE 13 NONDESTRUCTIVE TEST (U.T.)	NOTE 14 DRIFT TEST	NOTE 15 FLARING TEST	NOTE 16 CRUSH TEST	NOTE 17 REVERSE FLATTENING TEST
BPE : Black Plain End Square-cut								
GPB : Galvanized Plain End Square-cut								
GPB : Galvanized Plain End Beveled								
GTC : Galvanized Threaded & Coupled								
GVC : Galvanized Vicaulic Joint								

NOTE 2 NB:Nominal Bore, OD-Outside Diameter
 ※ 4 Unit (M:Meter, F:Feet, L:Inch)
 ※ 7 W : Weld Part
 ※ 9 POST SEAM ANNEALING
 ※ 12 Weld Ductility Test
 ※ 15 Flaring Test

NOTE 3 NB:Nominal Bore, OD-Outside Diameter
 ※ 4 Unit (M:Meter, F:Feet, L:Inch)
 ※ 5 G:Good
 ※ 10 Visual & Dimension Test
 ※ 13 Nondestructive Test
 ※ 16 Crush Test

NOTE 6 Base Metal
 ※ 8 H:Heat (and H:Heat Treatment)
 ※ 14 Drift Test
 ※ 17 Reverse Flattening Test



WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN
 APPROVED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER

INSPECTION MANAGER