kirloskar
Ferrous

TEST CERTIFICATE ACC TO EN: 10204: 3.1

Format No. QFB-QU-14/R-03

Customer :

Consignee :

Test Certificate No. :EW24300353 Date: 28-NOV-2024
W.O. No. :QFSW8898001
Invoice No. :353251100176 Date: 28-NOV-2024

P.O.No : EGSI -1123 . Date: 25-SEP-2024

Customer Item : -- SEAMLESS BLACK PE PIPES AS PER ASTM A106B/ASME 106B/API 5L X42 GRADES SIZE: 3 X SCH 40

Specification : ASTM A106/A106M-19a Grade B/ASME BPVC SA-106/SA 106M/ Grade B SECTION II, PART A Edition 2023/API 5LGrade X42 PSL-1 (FORTY-SIXTH EDITION)

Product : HOT FINISHED SEAMLESS STEEL PIPE

Ends : PLAIN ENDS

Heat Number : 8990P Steel Grade : BS 3059 Confirms to : BS 3059 Batch Number : BWJ0719

Steel Supplier: KFIL (STEEL DIV),JEJURI,PUNE Manufacturing Route: EAF-LRF-VD-CCM(Fully killed)

Dimensions			Tolerance			Tolerance Inch		Quantity		
	MM	Inch	+Ve	-Ve	UOM	+Ve	-Ve	Number	Meter / Feet	Weight
OD :	88.900	3.500	0.026	-0.026	INCH			202	1231.500 / 4040.552	14.140 Ton
ID :	77.920	3.068	0.000	0.000	INCH					
WT:	5.490	0.216	0.000	0.000	P			Length: E/ 240.000 - 240.000 MM, E/ 0.787 - 0.787 Feet		

% Chemical Composition (EL) – ASTM A751-21

EL.	UOM	Min	Max	Mill	Product1	Product2
C	%		0.2800	0.1350	0.1360	0.1350
Si	%	0.1000		0.2200	0.2210	0.2220
S	%		0.0300	0.0030	0.0032	0.0031
P	%		0.0300	0.0100	0.0120	0.0130
Mn	%	0.2900	1.0600	1.0200	1.0200	1.0300
Ni	%		0.4000	0.0700	0.0690	0.0710
Cr	%		0.4000	0.1100	0.1120	0.1130
Mo	%		0.1500	0.0300	0.0290	0.0280
Cu	%		0.4000	0.1400	0.1450	0.1460
Sn	%			0.0070	0.0071	0.0072
Al	%			0.0310	0.0320	0.0310
Ti	%		0.1500	0.0021	0.0022	0.0021
V	%		0.0800	0.0025	0.0024	0.0025
As	%			0.0045	0.0046	0.0045
Ca	%			0.0015	0.0016	0.0015
B	%			0.0004	0.0004	0.0005
Nb	%		0.1500	0.0033	0.0032	0.0033
CE	%			0.3475	0.3489	0.3498

Mechanical Properties : ASME SA/ASTM A370-24/ASTM E8/E8M-24/E18-24/E10-23

	YS (ReH) psi 0.5% EUL	U.T.S. (Rm) psi	% E (A) 50.00 mm		Sample Location	Sample Orientation		Tensile specimen Dimensions Type	Width (mm)	WT (mm)
Min	42100.00	60200.00	23.00							
Max										
1	51002.96	72465.17	36.50		P	L		Strip	25.17	5.25

Tensile strength at ambient temperature

Abbreviations : P:Pipe Body, U:Upset,T:Transverse, L:Longitudinal

Ultrasonic Test (ASTM E213-22) :Ok

Type of reference indicator used :

Notch Orientation	Notch Depth	UOM	Notch Length	UOM	Notch Width	UOM	Notch Type	Drill Hole Dia	UOM
Longitudinal ID	0.5500	mm	50.0000	mm	0.4000	mm	N NOTCH		
Longitudinal OD	0.5500	mm	50.0000	mm	0.4000	mm	N NOTCH		

Flattening Test (As Per Specn.) :Ok

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