



TUBES COMPANY PVT. LTD.

A NORSOK APPROVED & DNV APPROVAL OF MANUFACTURER, AN ISO 9001:2015, ISO 14001:2015,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES / TUBES / U-TUBES
GOVT. RECOGNISED EXPORT HOUSE
CIN : U27106GJ2006PTC049217

INSPECTION CERTIFICATE AS PER EN 10204 - 3.2

F/QAC/12 REV.01

T.C.NO :- MTCPL/2020-2021/1492/A

DATE :- 31/01/2021

CUSTOMER NAME :- M/s. L&T HYDROCARBON ENGINEERING LIMITED.

P.O. NO. :- REFINERY/75000-79317/KKM

O.A.NO. :- 2020-21/12/00834/DOM

DATE :- 23.12.2020

PRODUCT :- AUSTENITIC S.S. SEAMLESS (P.E.) PIPES. (COLD DRAWN, SOLUTION ANNEALED, PICKLED & PASSIVATED)

DATE :- 24.12.2020

MAT.SPEC. :- ASTM A-312-18a, TP-304L

EIL SPECIFICATION NO.: 6-44-0051 REV.6 DATE:- 25.09.2014

MATERIAL/SERVICE CODE: PPS4CGGN1DZZS3PB

STANDARD QAP FOR SS & AS SEAMLESS PIPE DOC NO.: B016-VRMP-LT-000-QC-QD-0011 REV. NO.: 00 DATE:- 28.02.2018

SHOP QC AND INSPECTION PROCEDURE DOC. NO.: B016-VRMP-LT-COM-QA-QD-0003 REV. NO.: 01 DATE:- 25.01.2018

TECHNICAL SPECIFICATION FOR PROCUREMENT OF PIPING ITEMS DOC. NO.: B016-HCUV-LT-503-PP-SP-0002 REV. NO.: 2 DATE:- 10.05.2018

POSITIVE MATERIAL IDENTIFICATION PROCEDURE (SHOP) DOC. NO.: B016-VRMP-LT-COM-QA-QD-0005 REV. NO.: 02 DATE:- 08.03.2018

STANDARD SPECIFICATION FOR COLOUR CODING OF PIPING MATERIAL :- 6-82-0003 REV.2 DATE:- 25.06.2014

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REMARKS:-

- [1] HEAT TREATMENT : SOLUTION ANNEALED AT TEMPERATURE BETWEEN 1044°C TO 1059°C AND QUENCHED IN WATER.
- [2] PRODUCT ANALYSIS CONDUCTED BY MTCPL & REPORT REVIEWED BY TUV INDIA - FOUND SATISFACTORY.
- [3] MECHANICAL TEST CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [4] IGC TEST ACCORDANCE TO ASTM A-262 PRACTICE "E" (WITH 20X & 250X MAGNIFICATION) CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [5] 100% HYDRO TEST CARRIED OUT BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [6] 100% VISUAL CHECKED BY MTCPL & 100% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [7] 100% DIMENSION CHECKED BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [8] 100% PMI TEST CARRIED OUT BY MTCPL & 20% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [9] PICKLING & PASSIVATION CARRIED OUT BY MTCPL & REPORT REVIEWED BY TUV INDIA - FOUND SATISFACTORY.
- [10] MARKING ON PIPES CARRIED OUT BY MTCPL & RANDOM WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [11] MARKING ON PRODUCT:- MAXIM S.S. SEAMLESS (P.E.) PIPE, SIZE, SPEC, GRADE, HEAT NO, P.O.NO, MATERIAL CODE, ITEM NO, "PMI OK" "GENERAL"
- [12] 10% WITNESSED PIPES DOUBLE STAMPED AND BALANCE ARE SINGLE STAMPED AS " (ELECTRO-ETCHED) FOR IDENTIFICATION.

NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W.= GAUGE WIDTH, N.A= NOT APPLICABLE

REVIEWED / NOTED

.....%WITNESSED

INSPECTOR'S/CLIENT'S SIGN

31/01/2021

PO.ITEM :- COMPLETE

MANAGER (Q.A.)

WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER.

Regd. Office & Works : Survey No. 105/106, Nr. 66 KV Sub-Station, Chhatral-Pansar Road,
Ahmedabad-Mehsana Highway, Chhatral-382729, Ta. Kalol, Dist. Gandhinagar, Gujarat, INDIA.
Domestic Phone No. : +91 99090 98844, F : +91 2764 234477, E : info@maximtubes.com E : mtcpl@maximtubes.com
Admin Office : B-92, Riviera Antilia, Nr. Pinnacle Corporate Road, Prahladnagar,
Vejalpur, Ahmedabad, Gujarat-380051, INDIA.
www.maximtubes.com



TUBES COMPANY PVT. LTD.

A NORSOK APPROVED & DNV APPROVAL OF MANUFACTURER, AN ISO 9001:2015, ISO 14001:2015,
BS OHSAS 18001:2007, PED & ADW / AD - 2000 - W0 Certified Company
MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES / TUBES / U-TUBES
GOVT. RECOGNISED EXPORT HOUSE
CIN : U27106GJ2006PTC049217

INSPECTION CERTIFICATE AS PER EN 10204 - 3.2

F/QAC/12 REV.01

T.C.NO :- MTCPL/2020-2021/1492/B

DATE :- 31/01/2021

CUSTOMER NAME :- M/s. L&T HYDROCARBON ENGINEERING LIMITED.

P.O. NO. :- REFINERY/75000-79317/KKM

O.A.NO. :- 2020-21/12/00834/DOM

DATE :- 23.12.2020

PRODUCT :- AUSTENITIC S.S. SEAMLESS (P.E.) PIPES. (COLD DRAWN, SOLUTION ANNEALED, PICKLED & PASSIVATED)

DATE :- 24.12.2020

MAT.SPEC. :- ASTM A-312-18a, TP-304L

EIL SPECIFICATION NO.: 6-44-0051 REV.6 DATE:- 25.09.2014

MATERIAL/SERVICE CODE: PPS4CGGN01ZZS3PB

STANDARD QAP FOR SS & AS SEAMLESS PIPE DOC NO.: B016-VRMP-LT-000-QC-QD-0011 REV. NO.: 00 DATE:- 28.02.2018

SHOP QC AND INSPECTION PROCEDURE DOC. NO.: B016-VRMP-LT-COM-QA-QD-0003 REV. NO.: 01 DATE:- 25.01.2018

TECHNICAL SPECIFICATION FOR PROCUREMENT OF PIPING ITEMS DOC. NO.: B016-HCUV-LT-503-PP-SP-0002 REV. NO.: 2 DATE:- 10.05.2018

POSITIVE MATERIAL IDENTIFICATION PROCEDURE (SHOP) DOC. NO.: B016-VRMP-LT-COM-QA-QD-0005 REV. NO.: 02 DATE:- 08.03.2018

STANDARD SPECIFICATION FOR COLOUR CODING OF PIPING MATERIAL :- 6-82-0003 REV.2 DATE:- 25.06.2014

SPECIFICATION FOR COLOUR CODING OF PIPING MATERIAL :- 6-82-0003 REV.2 DATE:- 25.06.2014											
ITEM NO.	HEAT NO.	DIMENSIONS						NO.OF PCS	TOTAL METER		
2	J3100565	1" NB X SCH 40S X 5 TO 7 MTR R.L. (P.E.) "GENERAL"						09	59.750		
ITEM NO.	HEAT NO.	S	CHEMICAL TEST								
			CHEMICAL COMPOSITION %								
			C	Si	Mn	P	S	Ni	Cr	Mo	N
			0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--
			H	0.023	0.480	0.990	0.037	0.002	8.060	18.080	--
2	J3100565	P1	0.021	0.512	1.025	0.038	0.004	8.078	18.115	--	--
		P2	0.022	0.467	1.047	0.036	0.003	8.112	18.060	--	--
		MECHANICAL TEST									
ITEM NO.	TENSILE STRENGTH Mpa	YIELD STRENGTH Mpa	ELON. A%, G.L=50 MM, G.W=FULL SPECIMEN	HARDNESS	FLARING TEST	FLATTENING TEST	REVERSE BEND TEST	HYDRO TEST PRESSURE AT 2500 psi (g) 10 SEC. HOLDING TIME (WATER USED FOR HYDRO TEST HAS CHLORIDE CONTENT LESS THAN 50 ppm)			
REQ.	485 [MIN]	170 [MIN]	35% [MIN]	90 HRB MAX	----	----	----				
2	613.58	291.89	64.00%	80 TO 82 HRB	NA	OK	NA				
REMARKS:-											

REMARKS:-

- [1] HEAT TREATMENT : SOLUTION ANNEALED AT TEMPERATURE BETWEEN 1045°C TO 1059°C AND QUENCHED IN WATER.
- [2] PRODUCT ANALYSIS CONDUCTED BY MTCPL & REPORT REVIEWED BY TUV INDIA - FOUND SATISFACTORY.
- [3] MECHANICAL TEST CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [4] IGC TEST ACCORDANCE TO ASTM A-262 PRACTICE "E" (WITH 20X & 250X MAGNIFICATION) CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [5] 100% HYDRO TEST CARRIED OUT BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [6] 100% VISUAL CHECKED BY MTCPL & 100% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [7] 100% DIMENSION CHECKED BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [8] 100% PMI TEST CARRIED OUT BY MTCPL & 20% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [9] PICKLING & PASSIVATION CARRIED OUT BY MTCPL & REPORT REVIEWED BY TUV INDIA - FOUND SATISFACTORY.
- [10] MARKING ON PIPES CARRIED OUT BY MTCPL & RANDOM WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [11] MARKING ON PRODUCT:- MAXIM S.S. SEAMLESS (P.E.) PIPE, SIZE, SPEC, GRADE, HEAT NO, P.O NO, MATERIAL CODE, ITEM NO, "PMI OK" "GENERAL"
- [12] 10% WITNESSED PIPES DOUBLE STAMPED AND BALANCE ARE SINGLE STAMPED AS " (ELECTRO-ETCHED) FOR IDENTIFICATION.

NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W.=GAUGE WIDTH, N.A= NOT APPLICABLE

REVIEWED / NOTED

.....%WITNESSED

INSPECTOR'S/CLIENT'S SIGN

PO.ITEM :- COMPLETE

MANAGER (Q.A.)

WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER.

Regd. Office & Works : Survey No. 105/106, Nr. 66 KV Sub-Station, Chhatral-Pansar Road,
Ahmedabad-Mehsana Highway, Chhatral-382729, Ta. Kalol, Dist. Gandhinagar, Gujarat, INDIA.
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MFG. & EXPORTER OF STAINLESS STEEL SEAMLESS & WELDED PIPES / TUBES / U-TUBES
GOVT. RECOGNISED EXPORT HOUSE CIN : U27106GJ2006PTC049217

INSPECTION CERTIFICATE AS PER EN 10204 - 3.2

F/QAC/12 REV.01

T.C.NO :- MTCPL/2020-2021/1492/C

DATE :- 31/01/2021

CUSTOMER NAME :- M/s. L&T HYDROCARBON ENGINEERING LIMITED.

P.O. NO. :- REFINERY/75000-79317/KKM

O.A.NO. :- 2020-21/12/00834/DOM

DATE :- 23.12.2020

DATE :- 24.12.2020

PRODUCT :- AUSTENITIC S.S. SEAMLESS (B.E.) PIPES. (COLD DRAWN, SOLUTION ANNEALED, PICKLED & PASSIVATED)

MAT.SPEC. :- ASTM A-312-18a, TP-304L

MATERIAL/SERVICE CODE: PPS4CGGN02ZZS3BB

EIL SPECIFICATION NO.: 6-44-0051 REV.6 DATE:- 25.09.2014

STANDARD QAP FOR SS & AS SEAMLESS PIPE DOC NO.: B016-VRMP-LT-000-QC-QD-0011 REV. NO.: 00 DATE:- 28.02.2018

SHOP QC AND INSPECTION PROCEDURE DOC. NO.: B016-VRMP-LT-COM-QA-QD-0003 REV. NO.: 01 DATE:- 25.01.2018

TECHNICAL SPECIFICATION FOR PROCUREMENT OF PIPING ITEMS DOC. NO.: B016-HCUV-LT-503-PP-SP-0002 REV. NO.: 2 DATE:- 10.05.2018

POSITIVE MATERIAL IDENTIFICATION PROCEDURE (SHOP) DOC. NO.: B016-VRMP-LT-COM-QA-QD-0005 REV. NO.: 02 DATE:- 08.03.2018

STANDARD SPECIFICATION FOR COLOUR CODING OF PIPING MATERIAL :- 6-82-0003 REV.2 DATE:- 25.06.2014

ITEM NO.	HEAT NO.	DIMENSIONS							NO.OF PCS	TOTAL METER	
3	200222AB08	2" NB X SCH 40S X 5 TO 7 MTR R.L. (B.E.) "GENERAL"							31	199.460	
CHEMICAL TEST											
ITEM NO.	HEAT NO.		CHEMICAL COMPOSITION %								
			C	Si	Mn	P	S	Ni	Cr	Mo	N
3	200222AB08	S	0.035	1.000	2.000	0.045	0.030	8.000	18.000	--	--
			MAX	MAX	MAX	MAX	MAX	13.000	20.000	--	--
		H	0.023	0.660	0.980	0.038	0.003	8.060	18.090	--	--
		P1	0.024	0.694	1.014	0.037	0.002	8.078	18.138	--	--
		P2	0.025	0.712	1.045	0.036	0.005	8.105	18.118	--	--
MECHANICAL TEST											
ITEM NO.	TENSILE STRENGTH Mpa	YIELD STRENGTH Mpa	ELON. A%, G.L=50 MM, G.W=12.70 MM	HARDNESS	FLARING TEST	FLATTENING TEST	REVERSE BEND TEST	HYDRO TEST PRESSURE AT 1700 psi (g) 10 SEC. HOLDING TIME (WATER USED FOR HYDRO TEST HAS CHLORIDE CONTENT LESS THAN 50 ppm)			
REQ.	485 [MIN]	170 [MIN]	35% [MIN]	90 HRB MAX	----	----	----				
3	577.55	326.82	56.00%	79 TO 82 HRB	NA	OK	NA				
REMARKS:-											

REMARKS:-

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- [3] MECHANICAL TEST CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [4] IGC TEST ACCORDANCE TO ASTM A-262 PRACTICE "E" (WITH 20X & 250X MAGNIFICATION) CONDUCTED BY MTCPL & WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
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- [7] 100% DIMENSION CHECKED BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [8] 100% D.P. TEST ON BEVEL EDGES CARRIED OUT BY MTCPL & 10% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
- [9] 100% PMI TEST CARRIED OUT BY MTCPL & 20% WITNESSED BY TUV INDIA - FOUND SATISFACTORY.
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REVIEWED / NOTED
.....%WITNESSED

INSPECTOR'S/CLIENT'S SIGN

PO.ITEM :- COMPLETE

MANAGER (Q.A.)

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