

Order : 843590  
 Index : 190806B2200  
 Ref. :  
 Article: 16X 2 S A269/A213M D4/T3 316(L) \* 6 (-


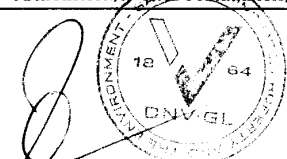
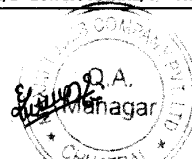

Delivery: 0085600964/000010  
 Quantity: 402,000 M  
 Heat : QY1802-019

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TUBES COMPANY PVT. LTD.

A NORSEK 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/2019-20/0085A11			
CUSTOMER NAME :- M/s VAN LEEUWEN STAINLESS BV												DATE :-29.06.2019			
P.O. NO. :- 3491391										DATE :-04.10.2018					
O.A.NO. :- 2018/10/11144_BA/EXP										DATE :-04.10.2018					
QAP.NO. :- 11144/EXP_2 REV.00										DATE :-08.02.2019					
PRODUCT :- AUSTENITIC S.S. SEAMLESS (POLISHED GRIT-240) TUBE (COLD FINISHED, BRIGHT ANNEALED)-MELTING PROCESS:- E.A.F.+A.O.D.															
MAT.SPEC. :- ASTM A 269-15a, ASTM A 213/213M-18b, TP 316/316L, SA 213 OF ASME SEC-II, PART-A, EDITION 2017, ASTM/ASME A/SA 1016/1016M, EN 10216-5, TC-1, GRADE 1.4401/1.4404, EN ISO 1127 D4/T3, NACE MR 0175/ISO 15156-3: 2015, NACE MR 0103/ISO 17495-1: 2016, VAN LEEUWEN NEW SPECIFICATION FOR TUBE & PED 2014/68/EU, AD 2000, W2															
W.O. SR. NO.	HEAT NO.	DIMENSIONS										NO. OF PCS	TOTAL METER		
13	QY1802-019	16.00 MM OD X 2.00 MM THK X 6000 MM LONG										310	1860.000		
CHEMICAL TEST %															
SR. NO.	HEAT NO.	S	C	Si	Mn	P	S	Ni	Cr	Mo	N	TI			
			0.030	1.000	2.000	0.040	0.015	10.000	16.500	2.000	0.100	--			
			MAX	MAX	MAX	MAX	MAX	13.000	18.000	2.500	MAX	--			
13	QY1802-019	H	0.021	0.370	1.250	0.033	0.004	10.170	16.580	2.110	0.008	--			
		P	0.018	0.401	1.274	0.031	0.006	10.179	16.558	2.119	0.009	--			
MECHANICAL TESTS															
SR. NO.	TENSILE STRENGTH Rm N/mm <sup>2</sup>	YIELD STRENGTH Rp 0.2% N/mm <sup>2</sup>	YIELD STRENGTH Rp 1.0% N/mm <sup>2</sup>	ELON. A%, G.L.=5.65√A, G.W= FULL SPECIMEN	ELON. A%, G.L.= 50MM, G.W= FULL SPECIMEN	HARDNESS TEST MAX	FLARING TEST	FLANGE TEST	RING EXPANSION TEST	FLATTENING TEST	RING TENSILE TEST	OTHER TEST			
REQ.	530 - 690	276 MIN	--	L=40% MIN	L=35%(MIN)	85 HRB	--	--	--	--	--	--			
13	603.00	314.00	340.00	60	62	72-74	OK	N.A	N.A	OK	N.A	N.A			
	594.00	306.00	335.00	58	59										
REMARKS:-															
MARKING ON PRODUCT :- MAXIM S.S. SEAMLESS (POLISHED GRIT-240) TUBE, SIZE, SPECN, GRADE, HEAT NO. (O.A.No & SR.No) "PAP"															
HEAT TREATMENT :- BRIGHT ANNEALED AT TEMP. BETWEEN 1050°C TO 1070 °C AND FOLLOWED BY INDIRECT WATER QUENCHING.															
HYDRO TEST PRESSURE :-1000psi(g). ( WATER USED HAVING CHLORIDE CONTENT LESS THAN 10 ppm & HOLDING TIME 10 SEC. MIN )															
EDDY CURRENT TEST :- ACCORDING TO ASTM E 426 & ASTM A 1016/ASME SA 1016.															
[1] I.G.C TEST ACCORDANCE TO ASTM A 262, PRACTICE "E" CONDUCTED BY MTCPL & REPORT REVIEWED BY DNV GL - FOUND SATISFACTORY.															
[2] MECHANICAL TEST CARRIED OUT BY MTCPL & REPORT REVIEWED BY DNV GL - FOUND SATISFACTORY.															
[3] PRODUCT ANALYSIS CARRIED OUT BY MTCPL & REPORT REVIEWED BY DNV GL - FOUND SATISFACTORY.															
[4] 100% EDDY CURRENT TEST CARRIED OUT BY MTCPL & REPORT REVIEWED BY DNV GL - FOUND SATISFACTORY.															
[5] 100% HYDRO TEST CARRIED OUT BY MTCPL & REPORT REVIEWED BY DNV GL - FOUND SATISFACTORY.															
[6] 100% PMI TEST CARRIED OUT BY MTCPL & 10% WITNESSED BY DNV GL - FOUND SATISFACTORY.															
[7] 100% DIMENSION AND VISUAL CHECKED BY MTCPL & 10% WITNESSED BY DNV GL - FOUND SATISFACTORY.															
[8] MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION.															
[9] 10% WITNESSED TUBES ARE DOUBLE STAMPED AS "  AND BALANCE TUBES ARE SINGLE STAMPED (ELECTRO-ETCHED) -FOR IDENTIFICATION.															
[10] APPROVED ACC. TO AD2000-MERKBLATT W0 AND CERTIFIED ACCORDING TO PED 2014/68/EU ANNEX-I SEC 4.3 BY CERTIFICATION BODY- FOR PRESSURE EQUIPMENT OF TUV NORD SYSTEMS (REG. NO. 0045), MTCPL CERTIFICATE NO. 07/203/1409/WP/1680/18 & 07/202/1409/WZ/1680/18.															
NOTE:- S= SPECIFICATION, P= PRODUCT ANALYSIS, H= HEAT ANALYSIS, G.L.= GAUGE LENGTH, G.W= GAUGE WIDTH, L= LONGITUDINAL, T = TRANSVERSE, N.A = NOT APPLICABLE.															
 INSPECTOR'S/SURVEYOR'S SIGN				P.O. ITEM :- COMPLETE				 MANAGER (Q.A.)				 WORKS INSPECTOR (Q.A.)			
WE HEREBY CERTIFY THAT THE MATERIAL IS AS PER SIZE & SPECIFICATION MENTIONED IN ORDER, ALL TEST RESULT ARE ACCEPTABLE.															

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