



MILL TEST CERTIFICATE
(INSPECTION CERTIFICATE)
In Accordance with EN 10204 :2004 Type 3.1

Jindal Stainless Limited.
Jajpur, Odisha

CUSTOMER	:Oiki Acciai Inossidabili Spa	CERTIFICATE NO.	:JSL-JRD/QA/2020-21/EXP/00035544
CITY	:Italy	DATE	:18.05.2020
OA NO	:32080	NET WT(MT)	:161.020
SALES ORDER NO.	:0568005129	COMMERCIAL INV. NO.	:J20202160159
PROFORMA INVOICE NO.	:6130011870	OA DATE:10.04.2020	SO DATE:20.04.2020
		DATE:18.05.2020	

Material Description/Product COLD ROLLED ANNEALED PICKLED STAINLESS STEEL COILS	Material Specifications EN 10088-4:10/EN 10028-7:16/ EN 10088-2:14/AISI/ASTM A240/A240M-18/ASME SA240/SA240M-19 SEC.II PartA/AD2000 W0/W2/W10,PED 2014/68/EU.	Process-Route EAF-AOD-LRF-CCS	Dimension Tolerance specification As per OA/PO Agreement.
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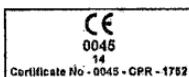
PHYSICAL DESCRIPTION													
SR NO	BATCH NO	PARENT COIL NO./PLATE NO.	PKT/PALLET NO	WEIGHT (MT)	NO OF PCS	HEAT NO	GRADE	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY
1	E044695504	0000594808		8.830		12001079	1.4307/1.4301/304L/304	2.000	1,500.00		2B	TE	PRIME
2	EK14949302	0000594810		11.995		22000497	1.4307/1.4301/304L/304	3.000	1,500.00		2B	TE	PRIME
3	H044692002	0000594809		8.715		22000496	1.4307/1.4301/304L/304	2.000	1,500.00		2B	TE	PRIME
4	EK14949303	0000594810		12.065		22000497	1.4307/1.4301/304L/304	3.000	1,500.00		2B	TE	PRIME
5	E044185703	0000584650		9.970		22000247	1.4307/1.4301/304L/304	3.000	1,500.00		2B	TE	PRIME
6	E044185504	0000584651		9.255		12000603	1.4307/1.4301/304L/304	3.000	1,500.00		2B	TE	PRIME
7	H044692004	0000594809		10.720		22000496	1.4307/1.4301/304L/304	2.000	1,500.00		2B	TE	PRIME
8	E044686203	0000594438		9.035		12001066	1.4307/1.4301/304L/304	2.000	1,500.00		2B	TE	PRIME

CHEMICAL ANALYSIS (LADLE)															
SR NO.	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Co%	Cu%	Ti%	Nb/Cb%	Al%
1	12001079	1.4307/1.4301/304L/304	0.027	1.75	0.002	0.040	0.22	8.04	18.12	0.083	0.18	0.40			
2	22000497	1.4307/1.4301/304L/304	0.024	1.78	0.003	0.040	0.22	8.03	18.28	0.089	0.17	0.46			
3	22000496	1.4307/1.4301/304L/304	0.026	1.73	0.003	0.040	0.22	8.02	18.16	0.091	0.17	0.48			
4	22000497	1.4307/1.4301/304L/304	0.024	1.78	0.003	0.040	0.22	8.03	18.28	0.089	0.17	0.46			
5	22000247	1.4307/1.4301/304L/304	0.024	1.73	0.002	0.044	0.27	8.03	18.35	0.090	0.17	0.39			
6	12000603	1.4307/1.4301/304L/304	0.027	1.73	0.002	0.045	0.26	8.04	18.27	0.092	0.16	0.37			
7	22000496	1.4307/1.4301/304L/304	0.026	1.73	0.003	0.040	0.22	8.02	18.16	0.091	0.17	0.48			
8	12001066	1.4307/1.4301/304L/304	0.021	1.73	0.003	0.039	0.25	8.08	18.26	0.073	0.16	0.53			

MECHANICAL PROPERTIES: SAMPLE DIRECTION: TRANSVERSE										ADDITIONAL INFORMATION					
Sr No.	Batch No.	Thk mm	Rp 0.2/YS Mpa	Rp 1.0 Mpa	Rm/TS Mpa	%EL A 50 mm	%EL 5.65/ SO(EL) mm	Hardness HRBW	Bend Test 180°	1)-THE ABOVE GRADE EN 1.4307 PRODUCTS ARE CERTIFIED AND CONFIRMED AS PER THE REQUIREMENTS OF DIN EN 10088-4:2010 UNDER CONSTRUCTION PRODUCTS REGULATION-305/2011 VIA CERTIFICATE NO: 0045-CPR-1752, YEAR 2014.					
1	E044695504	2.00	349	382	612	55		82 / 83		2)-The DOP(Declaration of performance) No: JSL0/1.4307/CR.					
2	EK14949302	3.00	324	355	641	57	62	83 / 84		3)-APPROVED ACCEPTANCE TO AD 2000-MERKBLATT W0,W2,W10 AND CERTIFIED ACCEPTANCE TO PED (2014/68/EU) BY CERTIFICATION BODY FOR PRESSURE EQUIPMENT OF TUV NORD SYSTEM (NOTIFIED BODY.REG. NO.:0045).					
3	H044692002	2.00	329	361	636	58		83 / 84		4)-MATERIAL ANNEALED IN ACCORDANCE WITH REQUIREMENTS AS LAID IN 10088-4:10, TABLE A.4.					
4	EK14949303	3.00	324	355	641	57	62	83 / 84		5)-MATERIAL ANNEALED AT MINIMUM 1040 °C & QUENCHED IN WATER AT A SUFFICIENT RATE TO PREVENT RE-PRECIPIATION OF CARBIDES.					
5	E044185703	3.00	346	378	618	55	60	80 / 81		6)-MATERIALS ALSO FULFILL THE REQUIREMENT OF ASTM A480/480M-18a & ASME SA480/SA480M SEC. II PART A,					
6	E044185504	3.00	339	373	646	56	61	82 / 83		7)-IGC TEST AS PER EN ISO 3651-2 METHOD A/ASTM A262 Pr-E & AFTER EXPOSURE THE SPECIMENS WERE BENT(11; 180 °) AND INSPECTED AT MAGNIFICATION OF 20X AND FOUND WITHOUT ANY CRACKS.					
7	H044692004	2.00	329	361	636	58		83 / 84		8)-ALL MATERIALS HAVE BEEN CHECKED FOR PMI TESTING BY PORTABLE XRF & FOUND SATISFACTORY.					
8	E044686203	2.00	331	364	629	56		80 / 81		9)-MATERIALS CONFORM TO REQUIREMENT AS PER NACE MR 0175/ISO 15156-2015 & NACE MR0103-2016.					
										10)-DIMENSIONAL TOLERANCE COMPLY AS PER DIN EN ISO 9445-2.					
										11)-THE ABOVE MATERIALS COMPLY TO EUROPEAN REGULATION (EC) No.1935/2004(M.O.C.A)					
										12)-THE ABOVE MATERIALS ARE FREE FROM MERCURY CONTAMINATION.					
										13)-GRAIN SIZE (ASTM NO.) AS PER ASTM E112 :-8.0 - 8.5.					

The material supplied under this Test Certificate is free from any radioactive contamination as checked by procedures established by Jindal Stainless Limited as per the recommendations provided by AERB.

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Format Ref: JSL/QA-CRM/33



This is hereby certified that the material was manufactured, sampled, tested & inspected in accordance with requirements of the material specification and has been found to meet the requirements of order.

QMS:ISO 9001- 2015
EMS:ISO 14001-2015
OHSAS:18001-2007
CERTIFIED COMPANY

Documents Digitally signed by Jindal Stainless Limited



Any unauthorised usage of this Test Certificate will warrant Legal Action.

IMPACT VALUE FOR INVOICE NO-J20202160159

* CHARPY IMPACT TEST CARRIED OUT AS PER DIN EN ISO 148-1 IN TRANSVERSE DIRECTION AT 20° C & -196° C & FOUND RESULTS RESPECTIVELY.

Sl no	Heat no.	Thick (mm)	Impact value of Sample-1 at 20° C(J)	Average Value of Sample-1 at 20° C(J)	Impact value of Sample-2 at 20° C(J)	Average Value of Sample-2 at 20° C(J)	Impact value of Sample -3 at -196° C(J)	Average Value of Sample-3 at -196° C(J)	Sample size	LATERAL EXPANSION OPPOSITE OF THE NOTCH (MM)
1	22000497	3.00	143, 137, 150	143	148, 138, 136	141	99, 95, 102	99	2.5x10.0x55.0	1.10, 1.07, 1.03
2	12000959	3.00	141, 142, 143	142	140, 141, 142	141	95, 96, 98	96	2.5x10.0x55.0	1.08, 1.10, 1.14
3	22000247	3.00	142, 140, 138	140	136, 144, 144	141	100, 97, 102	100	2.5x10.0x55.0	1.13, 1.12, 1.08
4	12000603	3.00	142, 144, 145	143	142, 144, 146	144	95, 96, 98	96	2.5x10.0x55.0	1.09, 1.10, 1.12