

# MILL TEST CERTIFICATE (INSPECTION CERTIFICATE)

In Accordance with EN 10204:2004-TYPE 3.1

Jindal Stainless (Hisar) Limited


CUSTOMER	BHAVYA IMPEX	CERTIFICATE NO.	JSHL-CRD/QA/2019-20/DOM/00725628
CITY	MUMBAI	DATE	08.02.2020
P.O.NO.	Auction-438-Lot-16	VEHICLE NO.	HR39C3551
SALES ORDER NO.	3100108595	NET WT(MT)	3.791
SHIPMENT/DELIVERY NO.	1100639259	PO DATE:06.02.2020	
		SO DATE:07.02.2020	
		DATE:08.02.2020	

Material Description/Product Stainless Steel Hot Rolled Plates / Sheets & Cold Rolled Coils Annealed & Pickled	Material Specifications ASME SA 240M Sec.II Part A-19, ASTM A 240M-18, IS 6911 2017 AMD NO.2	Process-Route EF-AOD-LRF-CCS	Dimension Tolerance specification As per OA/PO Agreement
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PHYSICAL DESCRIPTION													
SR NO	BATCH NO	HRC/PLATE NO.	PKT/PALLET NO	WEIGHT (MT)	NO OF PCS	HEAT NO	GRADE	THK (mm)	WIDTH (mm)	LENGTH (mm)	FINISH	EDGE	QUALITY
1	2001509774	308769H		0.350	3	2001J0135	316L/316	4.000	1,250.00	2,500	N1	ME	PRIME
2	2001512017	308795H		0.507	4	2001J0137	316L/316	5.000	1,250.00	2,500	N1	ME	PRIME
3	2001512060	308798		0.644	5	2001J0136	316L/316	5.000	1,250.00	2,500	N1	ME	PRIME
4	2001512099	308776		0.719	9	2001J0138	316L/316	3.000	1,250.00	2,500	N1	ME	PRIME
5	2001512139	307645R		0.384	5	2001J1147	316L/316	3.000	1,250.00	2,500	N1	ME	PRIME
6	2001512832	308772		0.327	3	2001J0140	316L/316	4.000	1,250.00	2,500	N1	ME	PRIME
7	2001513036	308045		0.586		2001J5266	316L/316	1.200	1,010.00		2B	ME	BABY-PRIME2
8	2001513038	308045		0.274		2001J5266	316L/316	1.500	1,010.00		2B	ME	BABY-PRIME2

CHEMICAL ANALYSIS (LADLE)															
SR NO.	HEAT NO	GRADE	C%	Mn%	S%	P%	Si%	Ni%	Cr%	N%	Mo%	Cu%	Ti%	Nb/Cb%	Al%
1	2001J0135	316L/316	0.028	1.31	0.003	0.045	0.20	10.07	16.20	0.040	2.01				
2	2001J0137	316L/316	0.023	1.21	0.003	0.045	0.25	10.08	16.30	0.043	2.04				
3	2001J0136	316L/316	0.025	1.20	0.003	0.043	0.24	10.08	16.19	0.037	2.04				
4	2001J0138	316L/316	0.017	1.22	0.005	0.045	0.25	10.04	16.25	0.048	2.04				
5	2001J1147	316L/316	0.026	1.26	0.005	0.044	0.26	10.03	16.12	0.040	2.03				
6	2001J0140	316L/316	0.022	1.72	0.003	0.043	0.27	10.05	16.80	0.051	2.03				
7	2001J5266	316L/316	0.020	1.77	0.005	0.039	0.22	10.08	16.88	0.065	2.08				
8	2001J5266	316L/316	0.020	1.77	0.005	0.039	0.22	10.08	16.88	0.065	2.08				

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 A 80 mm	Hardness HRRW	Bend Test 180°	1) Material Solution annealed at minimum 1050°C and quenched in air-water mist at a sufficient rate to prevent re-precipitation of carbides.	
1	2001509774	4.00	322		602	55		86 / 86		<div style="font-size: 2em; font-weight: bold; text-align: center;">U-1321</div>	
2	2001512017	5.00	312		616	52		83 / 82			
3	2001512060	5.00	319		609	55		86 / 85			
4	2001512099	3.00	305		614	55		86 / 85			
5	2001512139	3.00	309		624	55		86 / 86			
6	2001512832	4.00	321		628	53		82 / 82			
7	2001513036	1.50	314		609	57		79 / 80			
8	2001513038	1.50	314		609	57		79 / 80			
										The material supplied under this Test Certificate is free from any radioactive contamination as checked by procedures established by Jindal Stainless (Hisar) Limited as per the recommendations provided by AERB.	

<b>Jindal Stainless (Hisar) Limited</b> O.P. Jindal Marg, HISAR-125005, INDIA TEL : +91-1662-222471 - 83 FAX : +91-1662-220496, 220476 Email : quality.jshl@jshl.in Format Ref. QAD-CR/09/REV12, Eff Date : 15/03/2018	This is hereby certified that the material was manufactured, sampled, tested & inspected in accordance with requirements of the material specification, SO/PO and has been found to meet these requirements.	QMS:ISO 9001-2015 EMS:ISO 14001-2015 OHSAS:18001-2007 CERTIFIED COMPANY	<b>For Jindal Stainless (Hisar) Limited</b>  Sr. Manager (Q.A.) Jindal Stainless (Hisar) Limited HISAR AUTHORISED SIGNATORY (QUALITY ASSURANCE DEPT.)
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