

Anjar Works

MILL TEST CERTIFICATE

JSW Steel Limited

SURVEY NO - 659, VILLAGE - VARSAMEDI, TA. - ANJAR (KUTCH) GUJARAT INDIA - 370110



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TEST CERTIFICATE NO. : JSW/PCMD/717606739-

DATE : 17.01.2025

CUSTOMER : MOUNTING RENEWABLE POWER LIMITED **SPECIFICATION** : EN 10025-2 : 2019 / IS 2062 : 2011 UT STD. : EN10160 S2 E3

P. O. NO. : MRPL STEEL 2024 IN P Date - 24.10.2024 GRADE : S355J2+N / E350C Impact Temp.(°C) : -20

Sr.	Plate / Coil	Heat	Thk	Width	Length	Weight	Mechanical Properties (Transverse Tensile)								Bend	CHARPY V-NOTCH IMPACT TEST (Joules)				Grain	Z - Direction Test				v.0		_	ks	
No.	No.	No.	(MM)	(MM)	(MM)	(MT)			1			:	2		(Transver	Longitudinal				size (ASTM	(Through Thickness)			Y Groove Crackability Test		ᆸ	mar		
							YS*	UTS	%EL	%RA	YS*	UTS	%EL	%RA	se)		ŭ			E112)				oracinalinty root			Z	Re	
							(MDa)	(MPa) (MPa) 5.65√a																					
							(IVIPa)	(IVIPa)	5.65√a		(MPa)	(MPa)	5.65√a			1	2	3	AVG		1	2	3	AVG					
	Sno	cified Pegu	iromont		<u> </u>	Min	(MPa) 355	(MPa) 490	5.65Va 22		(MPa) 355	(MPa) 490	5.65√a 22		≤25-2T, >25-	1	2	3	AVG 27		1	2	3	AVG 25			-		
	Spe	cified Requ	irement	<u> </u>	I	Min Max			22				5.65√a 22 		≤25-2T, >25- NA	1		3			1 		3 	0.5					
1	Spe 24LP1615A1		irement 48.00	2777	14151		355	490	22		355	490	22			233		196	27					25					

	Chemical Composition (%)																						
HEAT ANALYSIS	Heat No.	С	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Мо	Al	N	Ca	В	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm
Specified Requirement	Min		-						-					0.020									
Specified Requirement	Max	0.220	1.600	0.025	0.025	0.550	_		0.550						0.0120			0.250				0.45	
	F985421	0.160	1.430	0.002	0.015	0.290	0.022	0.239	0.008	0.015	0.002	0.035	0.001	0.035	0.0048	0.0023	0.0002	0.052	0.247	0.270	7.29	0.42	0.25
	F985416	0.162	1.430	0.002	0.015	0.312	0.022	0.239	0.008	0.014	0.002	0.036	0.001	0.033	0.0038	0.0021	0.0003	0.052	0.247	0.270	8.68	0.42	0.25

PRODUCT ANALYSIS	Heat No.	С	Mn	S	P	Si	Cr	Ni	Cu	Ti	V	Nb	Мо	Al	N	Ca	В	Nb+Ti+V	Cu+Ni	Cr+Mo+Cu+Ni	AI/N	CE**	Pcm
Specified Requirement	Min		-				-							0.020									
Specified Requirement	Max	0.220	1.600	0.025	0.025	0.550			0.550						0.0120	-		0.250		-		0.45	
	F985421	0.158	1.414	0.002	0.015	0.286	0.022	0.235	0.008	0.015	0.002	0.034	0.001	0.034	0.004.7	0.0023	0.0002	0.051	0.243	0.266	7.23	0.41	0.24
	F985416	0.160	1.414	0.002	0.015	0.307	0.022	0.235	0.008	0.014	0.002	0.035	0.001	0.033	0.0037	0 0021	0.0003	0.051	0.243	0.266	8.92	0.42	0.25
									11101	DOAS	VASE	A.S	1	MEAIL	TELL	1							

IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUI / ALEMS FO IS 2062:2011.

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES OF THE PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING AND INSPECTION CONTAINED IN BIS CERTIFICATION MARKS LICENCE NO. CM/L-7945703 ARE AS INDICATED ABOVE AGAINST IT IS CERTIFIED THAT THE MATERIAL DESCRIBED ABOVE FULLY CONFIRM TO EN 10025-2:2019 & EQUI / ALENT TO IS 2062:2011. available at http://sqs.com/termi EACH ORDER NO.

PLAESE REFER TO EN 10025-2:2019 & IS 2062:2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS.

1) Test Certificate confirms to EN 10204 : 2004 Type 3.1

2) Process Route: SLAB (BOF-LHF-RH-CCM-Fully Killed(Al&Si Killed))-Hot Rolling.

3) Supply Condition : Furnace Normalized

4) Mechanical Properties are certified at Room Temperature unless specified.

5) Ultrasonic Test are satisfactory as per EN10160 S2 E3

6) Dimensions are satisfactory as per EN10029:2010 Class B, Table - 1,2,3

7) Surface condition as per EN10163-2 Class B, Subclass-3, 8) Weight calculation for plates is as per Theoretical Calculation

Legend: YS: Yield Strength, UTS: Ultimate Tensile Strength, EL: % Elongation, RA: Reduction in Area, Thk: Thickness, NDTT: Nil Ductility Transition Test, Min: Minimum, Max: Maximum, NA: Not Applicable, S: Simulated Post-weld Heat

Treatment Test,Sat : Satisfactory,WBBT-Weld bead bend test YS*=t≤16-355, 16<t≤40-

345, 40<t≤63=335,63<t≤80=325, CE**= 0.47 for t>30 mm

(Quality Assurance & Control Dept)



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