

ARORA IRON & STEEL ROLLING MILLS (P) LTD.

DHANDARI KHURD, NEAR PHASE-VII, FOCAL POINT, LUDHIANA- 141'010.

Website: www.arorairon.com



TEST CERTIFICATE TEST CERTIFICATE ACCORDING TO EN10204 TYPE 3.1



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					Materia			Billet Route					Test Certifica	ite No.		2024-25/0017108					
					Process			EAF-LRF-VD CCM-AMIC EMS-RM				1	Date			21-11-2024					
PLOT NO-C-158 A MATSYA INDUSTRIAL AREA						Specific	ation		TDC No:-MAT1052D Dated:-21.10.2021,Rev:-00					Invoice No.			14448				
											o-1516	151'HEA:	-00					14-11-			
						Date-08 Revision				Date-08.09.2022				,			34.290				
										lon No-1											
										Revisio	on Date-0	7.11.20	22								
			i-(INDIA)												Weight (MT.				4000		
PIN CODE NO.301030						1									Input/Billet Size Reduction Ratio			-	7.08 (Spec-6-1 min)		
							Supply	Size			IMØ *				No's of Pcs	itio		80	ec-6.1 mun)	
							Supply		on		T ROLLE	D			No's of Bund	les		16 *			
							Colour	Code		WHITE	-				Length Size			NA	O A CHARLES TO THE OWN COMMON	THE RESIDENCE OF THE PARTY OF T	
											TEST	RES	ULT								
								СН	EMIC	AL AN	ALYSI:	S (AST	ME4	15 / IS	8811)						
f	Elemei		С%	Mn%	S1%	5%	Р%	Cr%	N1%	Mo%	STATE OF THE PARTY	AI%	Cu%	Ca%			*	,		Al/N2 Ratio	
pec.		∕in ∕iax	0.160	0.700	0.150	0.020		0.800	0.800	-	,	0.020			4		,	-	-	2.00	
Δ	chieve		0.210	0.910	0.350	0.040		1.200	_	0.100	-		0.300	0.0025		-	The second secon	-	-	2.69	
	· · · · · · · · · · · · · · · · · · ·		0.165	0.910	0.223	0.025	0.019	1.130	1.045	10.070	0.003	Company of the Company	0.110	0.0008		-		1	-		
						JOMI	NA 10	MINY	HAR					848, AS	TM A255,	SAE J40	06)			Water and the same	
	ance (1.5	3	5	7	9	11	13	15	20	25							-		
pec. HRC)		Ain	41.5	40	37	35	33	31	34	27	23.5	29						-	-	-	
	eved (I	fax HRC)	47 45.0	46.5	45.5 43.0	44	43.5 38.5	43 36	41.5 34.5	32.5	36.5 29.5	33.5 29.0						-	-		
ACIII	eved	inc)	43.0		43.0	41.5	38.5	30	34.5	-	29.5	29.0								According to the second	
										Me	echanic	cal Pro	operti	es							
			IS:1608/AS				TM A370						15:1	757	ASTM A255			(5:1500		00	
Parameters		erc	Tensile Yield			ld	Elongation			Reduction		Impact Strength					Surface Hardness				
Parameters			Strength Stren			-		Area			Charpy U-notch					.I. Value		As Rolled			
					,						(Joules)		(Inch)		(mm)	(BHN)		v)			
oec. Min Max		in	х -		-			-										3.61			
					-					-					-		 	-	201/2	of the last to the last of the last of	
Ac	hieve	d			-		-		L	-						<u> </u>	-		2012		
										M	letallu	rgical	Resul	ts							
			Inclu	ısion Ra					/ JK Ch	art)		1	Grain S			Depth o	-	1			
arameters			WORST FIE				LD RATING D				IS 4748 / ASTM E112			Decarburization IS 6396/ASTM E1077			Micro Structure				
		Туре	Thin	Thick	Thin	Thick	Thin	Thick	Thin		DS	'	(No.)		Compl		Partial			WHEN THE PROPERTY AND PARTY AND PART	
		Series Min	THIN THICK		-	Tillek	-										1% of				
	1 .	VIIII	-		-	1.0	-	0.5	1.5	1.5	T.	6 or finer				section/0.5 mm max.	Pearlite + ferrite		erite		
Spec.	-							0.5	1.5	1,5							mm max.	9	earlite + fo		
spec.		Мах	2.0	2.0	1.0	1.0	0.5			+								,	earlite + fu		
		Мах	2.0	0.5	0.5	0.0	0.0	0.0	1.0	0.0		6.0	to				mm max. 0.40 MM	-	earlite + fu		
	r	Мах	-			-	0.0	<u>,</u>			-			6.5	Other Tee			ş	rearlite + fo	ter damen (in the property of	
	r	Мах	1.5			-	0.0	<u>,</u>	l Prop	ertie	s, Non	Destr	uctive	6.5 Test 8	Other Tes	it traspois	0.40 MM	5			
	r	Max	1.5	0.5	0.5	0.0	0.0	ysical	Prop	ertie:	pection	Destr	uctive	6.5 Test 8	U	trasonic	0.40 MM	-	Upsettir		
A	Achiev	Max	1.5	0.5	0.5	0.0	Ph tep Dow Test	ysical	Prop	ertie	pection	Destr	uctive gnetic P Inspect	6.5 Test 8 article	U	it trasonic ASTM A38	0.40 MM	F	Upsettin	ng	
Spec. A	Achiev	Max	1.5	0.5	0.5	0.0	0 0 Ph	ysical	Prop	ertie:	pection	Destr Mag	uctive gnetic P Inspect ISTM E1	Test 8	U	trasonic	0.40 MM	5	Upsettin Test	ng	
Α	Achieve	Max	1.5	0.5 Soundne	0.5	0.0	Ph tep Dow Test	ysical	Prop	ertie:	pection	Destr Mag	uctive gnetic P Inspect ASTM E1 100% b	Test 8 article	UI VI	STM A31	0.40 MM	5	Upsettin Test	ng	
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Param	Achieve neters	Max ed	1.5 ASTM C2,R2,S etter than	0.5 60undne 1 E381 62 MAX. n C2,R1,	0.5	St.	Ph rep Dow Test IS 4075	ysical vn	Prop	perties ace Insp IS 1335	tory	Destr Mag	uctive gnetic P Inspect ASTM E1 100% b	Test 8 article	100% bar	100% ba	0.40 MM Test 888 T Tested-Ok		Upsettin Test	ng	
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aram Spe Achie	Achieve neters	Max ed	1.5 ASTM C2,R2,S etter than	0.5 Foundness 1 E381 F32 MAX. In C2,R1,	0.5	St.	Pheep Dow Test IS 4075	ysical vn	Surfa	perties ace Insp IS 1335 - - Satisfact X-RF	tory	Destr Mag	gnetic P Inspects ASTM E1 100% b Tested	Test 8 article ion 444 ars -Ok	100% bar	100% ba rs Auto U Gas Ana Test m N 2 (pp)	0.40 MM Test 88 T Tested-Ok lysis Repo		Upsettlir Test IS 1018	pg :7 :7 : :pm)	
A Param Spe Achie	neters ecc. eved	Max ed	1.5 ASTM C2,R2,Setter that	0.5 Foundness 1 E381 F32 MAX. In C2,R1,	0.5	St Sa	Pheep Dow Test IS 4075	ysical yn	Surfa	pertie: ace Insp IS 1335	tory	Destr Mag	nuctive gnetic P Inspecta STM E1 100% b Tested	6.5 Test 8 article ion 444 ars Ok	100% bar	100% ba 100% ba rs Auto U Gas Ana Test m N; (ppi	0.40 MM Test 88 T Tested-Ok llysis Repo- lethod-Leco m) 0		Upsettin Test IS 1018	ig i7 ipm) MAX	
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In case of any Test certificate Issue, please inform Dinesh Singla at quality04@arorairon.com, Mobile No.+919914538700