

ARORA IRON & STEEL ROLLING MILLS (P) LTD.

DHANDARI KHURD, NEAR PHASE-VII, FOCAL POINT, LUDHIANA- 141 010. Website: www.arorairon.com

UNIT-I

TEST CERTIFICATE TEST CERTIFICATE ACCORDING TO EN10204 TYPE 3.1



Customer Address:						Mate	rial		Billet	Route				Test Certif	icate No		2024-25/	0022115	
M/S- S.S.B. ENGINEERS PVT.LTD.						100000000000000000000000000000000000000	ss Rout	e		RF-VD-CO	M-AML	C-EMS-R	RM	Date	reace ivo.		09-12-20		
PLOT NO-C-158 A MATSYA INDUSTRIAL AREA					Specif	fication		TDC No:-MAT1052D Dated:-21.10.2021,Rev:-00 MFR No-1516 Date-08.09.2022 Revision No-1					Invoice No.			15547			
							100000				evision Date-07.11.2022						8.520		
ALWAR -RAJASTHAN-(INDIA)														Weight (MT.)			0	>	
PIN CODE NO.301030											A32824 -				The second second		220, 250		
															t Size		320x250 MM		
							y Size			120 MMØ				Reduction Ratio No's of Pcs			7.08:1(Spec-6:1 min)		
							y Condi	tion			ED						MA20		
					r Code		AS HOT ROLLED WHITE				No's of Bundles Length Size			NA NA					
										TEST	RES	LIIT		Tength oil			lise		
							CH	IEMIC					415 / IS	8811)					
E	lement	С%	Mn%	Si%	S %	P%	Cr%	Ni%	Mo%		Al%	Cu%	Ca%	-	-	-	T -	-	AI/N2 Rat
Spec.	Min	0.160	0.700	0.150	0.020	-	0.800	0.800	-	-	0.020	-	-	-	-	-	-	-	2.00
	Max	0.210	1.100	0.350	0.040	0.020		1.200	0.100	-	0.050	0.300	0.0025	-	- 1	-	-		3.00
А	chieved	0.185	0.910	0.240	0.026	0.017		1.040	0.070	0.003	0.023	0.110	0.0009	-	+	2	-	-	2.50
		((IOM	NYIC	MIN	HAR	DENA	BILITY	/ TEST	115.3	2/2 /5	TM A255,	CAE IA	161			V
Dist	ance (mm)	1.5	3	5	7	9	11	13	15	20	25	(13.3	540, A3	I IVI AZSS,	JAE 140	10)			
pec.	Min	41.5	40	37	35	33	31	34	27	23.5	29								1
HRC)	Max	47	46.5	45.5	44	43.5	43	41.5	40	36.5	33.5								
Achi	eved (HRC)	45.5	44	43.5	42.5	38.5	36.5	34.5	32.5	30.0	28.0			- Tribur's					
		1	1	1	1	1	1	1		-11	-10								
-			_	15.1	608/45	TM A3	70		ivie	chanic	cal Pro	perti	es						
		13.1000/A				TM A370				IS:1757				ASTM A255		IS:1500			
Parameters		s Tensile Y			eld				Reduction Area		Impact Strength						Surface Hardness		
		Stre	Strength Streng								Charpy U-notch				D.I.		As Rolled		
										(Joules)				(Inch)	(mm)	l profession	(BHN)		
pec.	Min	99000000		-		-			-							-	•		
	Max		-						-					400h	-	-		245	
A	illeveu		-				-		-						-	- //		201/2	12
									Me	etallur	gical	Result	ts						
		Incl	usion Ra	ting (IS	: 4163 /	ASTM	: E45A	/ JK Ch			_	Grain Si			Depth of				
aram				WORST FIEL						IS 4748 /		Decarburization			Micro Structure				
	Туре	A		B		C)	DS	ASTM E112			96/ASTM		wiicro structure			
	Series	Thin Thick		Thin	Thick	Thin	Thick	Thin	Thick		(No.)		Complete		Partial				
pec.	Min	-	-	-	1.0	0.5	0.5	1.5	1.5	-	6 or finer				1% of				
	Max	2.0	2.0	1.0						-						section/0.5 mm max.	Pearlite + ferrite		ferrite
Ac	hieved	1.5	0.5	.5 0.5							6.0					0.42 MM		- Conne riente	
		1.0	0.5	0.5	0.0	0.0	0.0	1.0	0.0		0.0	10	0.5			0.42 MM			
						Ph	vsical	Prone	arties	Non	Doctri	ıctivo	Tost &	Other Te	-				
	1	nternal S	oundnes	s	St	ep Dow			ce Inspe			netic Po			trasonic 1	act	T	(Image)	
arame	eters	ASTM E381				Test		IS 13352			Inspection ASTM E1444				STM A388		Upsetting Test		
					-	S 4075							751117555			IS 10167			
Spe	с.	C2,R2,S2 MAX.							-		100% bars			100% bars			-		
Achiev	/ed B	Better than C2,R1,S1				Satisfactory			Satisfactory		Tested-Ok		100% bars Auto UT Tested-Ok						
			,,.		Ja		. 1	34	LISTACLO	. 7	-	estea-(, , , , , , , , , , , , , , , , , , ,	100% bar	s Auto U1	rested-Ok			
		Dimen	sional	T	Sn	ark Tes	t		X-RF					G	as Anal	sis Report			
arame	ters	Tolerance			-									0		thod-Leco			
											O ₂ (ppm)		N ₂ (ppm)			H ₂ (ppm)			
Spec	2.	-				00% bar	s	100% b		bars		15 MAX.		90-110			2.0 MAX		
Achiev	red As	per IS 37	39 Grad	e 1	Te	Tested-Ok		Tested-Ok		k	11.00		92.0			0.82			
emarks								-1		1.5	2	ASSESSED BY THE PARTY OF THE PA	107					0.02	
is ma		with Ro	oHS (Pb, on radioac	Cd, Hg, C	Cr6+) an	nd REA	CH perr	nissible	limits.	3TG (Ta	ntalum	Tin, Ti	ungsten a	and Gold) no	t added in	ntentionally in	the		
								V		S	1	20	9-	R					
	P	repared	By:					Apr	proved f	By:	101	14	Pre Diena	tch Inspection	on:	11/2			
			SHARMA	A				T		100		-	, C Dispa	son maperti	5	11/1		7 (()

In case of any Test certificate Issue, please inform Dinesh Singla at dsingla@arorairon.com, Mobile No.+919914538700