

AARTI STEELS LIMITED

Registered Office: G.T.Road, Miller Ganj, Ludhiana. Works : Focal Point, LUDHIANA - 141010. (INDIA) Phone no. :- 0161-3006200 Fax :- 0161-3006250 MANUFACTURER'S OF :- CARBON ALLOYS & SPECIAL STEELS

-: TEST CERTIFICATE :-



-: Original :-

M/S.- HAPPY FORGINGS LTD.U-II, B-XXIX, 2254 | T.C.NO. 8554

Date -: 13/02/2018 17:16:18

/1.&OPP.HINDUSTAN TYRE. KANGANWAL ROADJUGIANA.LUDHIANA						Invoice No. 21308 Truck No. PB19F-7754									
GRADE	SIZE	HEAT 1	NO. M	ANUFA	CTURING	ROU'	re C	DLOUR	CODE	SUP	PLY	CONDN.	QTY.	NO. OF PCS.	
EN 353	80 DIA	6297	E.A	.F.+L.F.	+V.D.+CCM+	EMS	BLUE	WHITE	E	AS F	ROLLEI)	31.490	157	
			-: CH	EMICA	L COMPO	SITI	ON IN	PERCE	NTAGE	:-					
1	C Mn	S	P	Si	Ni	Cr	Mo	v	Al	Cu	Sn	Ti 1	в с	a	
Min	- 0.50	000		-	1.0000	0.7500	0.0800			1					
Max	0.2000 1.00	000 0.050	0.0500	0.3500	1.5000	1.2500	0.1500								
Actual	0.1800 0.80	500 0.022	20 0.0210	0.2050	1.0800	1.1000	0.1200	0.0045	0.0210	0.1250	0.0245	0.0025	0.0004 0.	0005	
	MIN			71	META	LLURG	ICAL R	ESULT	s :-						
INCL	JUSION RA	ATING	IS: 4	163/J	K CHAR'		M E-45		AS'	t.Grai Size IM No. -112)		7	Name and Address of	Content ppm)	
STD	T 2.0 1	H L.0	T 2.0	1.0	2.0	H 1.0	2.0	1.0	D	ecarb.	9	0.13	02 N2	16	
MAX ACTUAL	1.5	0.5	0.5	0.0	0.0	0.0	1.0	0.0		icro- ructur	e	B+F+P	H2	.912	
MECHANI TESI	CAL PROD	PERTIE	S(ASTM	A-37	0/IS-1	608)	AS ROI	LED	MACR	0	UI	TRASONI TEST	C MI	X UP TEST	
	U.T.S. Y.S. EL% RA% Impact Value						Hardr B.H.N.	/Rb	C2,R2,S2 LEVEL AS	ETTER THAN 2,R2,S2 MAX EVEL AS PER		100 % DONE OK SPARK TEST 100% DONE OK			
Reqd.						-		PLATE IST							
Actual	-	-	-	-	-		229-2								
			-:		RDENABI						_				
Distand	ce J1/	16 J2	2/16 J	3/16	J4/16	J5/	16 J6	/16	J7/16	J8/1	L 6	J9/16	J10/1	5 J12/16	
Require	ed -	1-	1-		-	1-,	-		34-37	-		-	-	-	
	1-1-	-	1-		1-	1-	1-		35	-		-	_	-	

Remarks :- REDUCTION RATIO=8.0,100% MOBILE SPECTRO DONE OK (X-RAYS)

SURFACE SATISFACTORY

Note :- TESTED FOR RADIOACTIVE CONTAMINATION OK

CERTIFIED THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON ACTUAL RESULTS CARRIED OUT ON SAMPLESS DRAWN AS PER Q.A.P.



AUTHORISED SIGNATORY