

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
10231 ht no. s-275 sharu steel dia 90 aisi1008	Unknown	Thursday, November 13, 2014	4:09:05 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-10-MO		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
	0	None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		

Sample Name
10231 ht no. s-275 sharu steel dia 90
aisi1008

	C Conc %	Si Conc %	Mn Conc %	P Conc %	S Conc %	Cr Conc %	Mo Conc %	Ni Conc %	Al Conc %	Co Conc %	Cu Conc %	Nb Conc %	Ti Conc %	V Conc %	W Conc %	Pb Conc %	Sn Conc %	As Conc %	Zr Conc %	
1	0.081	0.087	0.40	0.010	0.022	0.073	0.016	0.060	0.034	0.007	0.066	0.006	0.004	0.004	0.053	<0.010	0.002	<0.005	<0.003	
2	0.11	0.086	0.40	0.014	0.031	0.073	0.015	0.057	0.034	0.007	0.066	0.006	0.004	0.004	0.053	<0.010	0.002	<0.005	<0.003	
3	0.099	0.091	0.39	0.012	0.026	0.073	0.014	0.060	0.061	0.007	0.066	0.006	0.005	0.004	0.064	<0.010	0.002	<0.005	<0.003	
Rep	0.095	0.088	0.40	0.012	0.026	0.073	0.015	0.059	0.052	0.008	0.064	0.006	0.004	0.004	0.055	<0.010	<0.002	<0.005	<0.003	
Min Cal	0.005	0.005	0.004	0.003	0.002	0.073	0.015	0.059	0.049	0.007	0.065	0.006	0.004	0.004	0.057	<0.010	<0.002	<0.005	<0.003	
Mean	0.095	0.088	0.40	0.012	0.026	0.073	0.015	0.059	0.003	0.002	0.002	0.003	0.004	0.004	0.057	<0.010	0.002	<0.005	0.003	
Max Cal	1.80	24.00	2.76	0.16	0.30	10.10	10.20	6.48	2.40	2.52	1.44	0.39	1.20	1.32	3.72	<0.0010	<0.002	<-0.009	<0.001	
	Ca Conc %	Ce Conc %	B Conc %	Zn Conc %	La Conc %	Fe Conc %														
1	0.002	0.010	<0.0005	0.007	<0.002	99.0														
2	0.010	0.009	<0.0005	0.007	<0.002	99.0														
3	0.007	0.009	<0.0005	0.006	<0.002	99.0														
Rep	0.006	0.009	<0.0005	0.007	<0.002	99.0														
Min Cal	0.0005	0.006	0.0005	0.003	0.002	99.0														
Mean	0.006	0.009	<-0.002	0.007	<0.002	99.0														
Max Cal	0.016	0.66	0.018	0.036	0.27															

Qualify in 1008 as
per Aes 26-618
Dupah



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
 Mobile : 98550-82559 E-mail : info@sharusteels.com & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

2645 F-QCD-03

ISO 9001 : 2008
Certified Company

TEST CERTIFICATE

M/S. SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR DEHRADUN (UTTRAKHAND)	T.C. No. 1468 Invoice No. Truck No. MP09HF/8633	Date 11-11-2014
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. OF PCS.
SAE1008	90 MM	S-275	L/HT	ORANGE	AS ROLLED	5.075 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE															
	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	0.30													
Max.	0.10	0.50	0.040	0.040	0.10										
Actual	0.09	0.39	0.026	0.033	0.07					0.036					

METALLURGICAL RESULTS												
INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	6/7	Gas content (ppm)	
	A		B		C		D					
	T	H	T	H	T	H	T	H	Decarb. (MM)		O ₂	
STD MAX											N ₂	
ACTUAL	1.0		0.5		0.5		1.0		Micro-Structure	P/F	H ₂	

MECHANICAL PROPERTIES							MACRO	ULTRASONIC TEST	MIX UP TEST
	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Rb	OK	OK	OK
Reqd.									
Actual						101			

HARDENABILITY (HRC) AS PER IS : 3848											
Distance											
Regd.											
Actual											

Remarks : REDUCTION RATIO = 7.33:1 ✓

OK As per spec 26-615
 (Signature)

(Signature)