

AARTI STEELS LIMITED

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MANUFACTURER'S OF: - CARBON ALLOYS & SPECIAL STEELS

TEST CERTIFICATE



-: Original :-

Date -: 15/02/2018 18:10:15 M/S.- FORGE INDIA (PVT.) LIMITED. T.C.NO. 8625 Invoice No. 21383 PLOT.NO.60, SEC-5, Truck No. HR38M-6006 PARWANOO. (H.P) HEAT NO. | MANUFACTURING ROUTE | COLOUR CODE | SUPPLY CONDN. OTY. NO. OF GRADE SIZE PCS. (MT) 4.980 26 SAE 8620 | 65 RCS | 6078 BROWN+BLUE AS ROLLED E.A.F.+L.F.+V.D.+CCM+EMS CHEMICAL COMPOSITION IN PERCENTAGE C Mn S P Si Ni Cr Mo V Al Cu | Sn | Ti 0.1500 | 0.4000 | 0.4000 | 0.1500 0.1800 0.7000 --Min 0.2300 0.9000 0.0400 0.0350 0.3000 0.7000 0.6000 0.2500 Max Actual | 0.2200 | 0.8900 | 0.0260 | 0.0130 | 0.2500 | 0.4800 | 0.5840 | 0.1920 | 0.0028 | 0.0280 | 0.1280 | 0.0120 | 0.0032 | 0.0004 | 0.0009 METALLURGICAL RESULTS :-Gas Content INCLUSION RATING IS: 4163/JK CHART/ASTM E-45A Aust.Grain Size (ppm) ASTM No. 7 C B A (E-112)T H T H T H T H 15 0.11 02 Decarb. 1.0 2.0 1.0 2.0 1.0 (MM) 2.0 2.0 1.0 STD N2 77 MAX Micro-H2 .876 1.0 0.0 P+F+B 0.0 0.0 Structure 0.5 0.5 0.0 ACTUAL 1.5 MIX UP TEST MECHANICAL PROPERTIES (ASTM A-370/IS-1608) AS ROLLED MACRO ULTRASONIC TEST TEST CONDITION (N / H & T) SPARK TEST U.T.S. Y.S. Impact Hardness BETTER THAN EL% RA% 100% DONE OK B.H.N./Rb C2.R2.S2 MAX 100 % DONE OK Value LEVEL AS PER 240 MAX PLATE Ist OF Regd. ASTM-E-381 184-192 Actual HARDENABILITY (HRC) AS PER IS: 3848:-Distance | J1/16 | J2/16 | J3/16 | J4/16 | J5/16 | J6/16 | J7/16 | J8/16 | J9/16 | J10/16 | J12/16 36-40 |-Required |-39 -Actual SURFACE SATISFACTORY Remarks :- REDUCTION RATIO=9.5,100% MOBILE SPECTRO DONE OK(X-RAYS)

Note :- TESTED FOR RADIOACTIVE CONTAMINATION of

Carlon