



TATASTEEL

CRM Complex West,Plot No S-76 Tarapur Industrial Area,PO No 22,Dist.-Palghar,Maharashtra 401506,India.



TEST CERTIFICATE

INVOICE NO.: 3148023836 DO NO.: 9517453913 TEST CERTIFICATE NO.: 905038658 CUSTOMER CODE: 854778

DESPATCH DATE: 10.01.2024

VEHICLE NO.: MH14GD5852(L) PRODUCT: CRCA SHEET

MATERIAL No. : 3175279

TEST CERTIFICATE TO

MIDC CHAKAN, PH-II VILLAGE

MAHINDRA AUTO STEEL PYTLTD. PLOT NO C23/1 2535 585, 88, 89

refer to IS 513 CR4(COLD REDUCED CARBON STEEL SHEET AND STRIP:2016)* for details of specification requirements). Legal sanction can be imposed on forging. Improper use of product can cause safety issues. To We hereby certify that the above mentioned material is tested in accordance with scheme of testing and inspection contained in BIS certification marks License no. CM/L-7198486 are as indicated against each section (Please 01 ST09124T16 validate test certificate, Scan QR Code Specification Requirements as per TDC No. YA09 01 ST09124T16 Itm Batch No. 03 ST09124T18 W03579100/ V19393 02 ST09124T17 W03579100/ V19393 Specification Requirements as per TDC No YA09 Section (TxWxL): 1.200x890.000x1705.00mm TDC No: YA09 Section(TxWxL): 1.200x890.000x1705.00mm Grade: MM22 EDD TDC No: YA09 ST09124T17 W03579100/ W03579100/ V19393 W03579100/ V19393 W03579100/ Mother Coil Mother Coil V19393 V19393 Cast No. Cast No. 2.135 2.130 2.130 2.135 2.130 Tonnage 2.130 Tonnage Min Z in 148 / 148 / Max 148 148 148 148 0.0018 0.072 0.0018 0.072 0.0018 Test Results est Results 0.0500 HRB 26 % 0 26 26 40 0.072 0.200 Mn % MPa 142 142 142 180 ΥŠ 0.006 0.006 0.006 0.006 0.006 0.015 0.030 S % MPa UTS 286 286 0.006 0.012 286 300 % S 0.015 0.020 0.015 % U E 50 50 50 45 % PPM 29 29 29 50 z r BAR 1.70 1.70 1.70 1.60 Mechanical Analysis, Specifications and Other Information Chemical Analysis, Specifications and Other Information 1.13 1.13 0.80 1.13 1.20 Z RA 12.0 12.0 12.0 Z Z ER 0.24 0.24 0.24 0.30 0.19

UTS = Ultimate Tensile Strength

El= % elongation on standard gauge length

TxWxL = Thickness x Width X Length

CE (Carbon Equivalent) = (C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15)

YS = Yield Strength 1 MPa = 1 N/mm2

Material is ROHS Compliant

*For further details please visit www.bis.gov.in

Material clearance date

Micro alloying elements (MA): Nb+V+Ti

This TC is electronically generated

Head Quality Assurance TATA STEEL LIMITED

Digitally signed by VISHWANAYH

01:36:21 IST our,Mumbai NOD RAUT rut@tata

Tensile Sample testing transverse to rolling direction

Route-BOF>LF>CC>HSM