



At - Isamba Phata | Khopoli - 410203 | Tal - Khalapur | Dist - Raigad (Maharashtra), India

TATASTEEL



CML 7700119009

TEST CERTIFICATE

TEST CERTIFICATE NO. : 905039267
DO NO. : 9517464701
INVOICE NO. : 3119026904
MATERIAL NO. : 3434006

DESPATCH DATE: 10.01.2024
CUSTOMER CODE: 854778
VEHICLE NO.: MH12QW9177(R)
PRODUCT: CRCA SHEET
MAHINDRA AUTO STEEL PVT LTD. PLOT NO C23/1
MIDC CHAKAN, PH-II VILLAGE
PUNE 410501

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. CML 7700119009 are as indicated against each section (Please refer to IS13 (PART 1):2016-CR4 for details of specification requirements). Legal sanction can be imposed on forging. Improper use of product can cause safety issues. To validate test certificate, Scan QR Code.

TDC No: AU09

Chemical Analysis, Specifications and Other Information

Grade: MM22 EDD	C	Mn	Si	S	P	Al														
Section(TxWxL): 1.200x890.000x1705.00mm	%	%	%	%	%	%														
Specification Requirements as per TDC No AU09	Min	0.0250				0.0250														
	Max	0.0500	0.2000	0.0200	0.0130	0.0150	0.0500													
l/m Batch No.	Mother Coil	Cast No.	Tonnage	Pcs.	Test Results															
01	PP09124N46	PP09124N46	A269058	2.769	194	0.0360	0.1560	0.0070	0.0077	0.0090	0.0600									
02	PP09124N47	PP09124N47	A269058	2.769	194	0.0360	0.1580	0.0070	0.0077	0.0090	0.0600									
03	PP09124N48	PP09124N48	A269058	2.784	195	0.0360	0.1580	0.0070	0.0077	0.0090	0.0600									

Mechanical Analysis, Specifications and Other Information

Section (TxWxL): 1.200x890.000x1705.00mm					HRB	f BAR	RA	YS	UTS	EL	n	BEND	ER						
Specification Requirements as per TDC No. AU09					Min	1.65	0.8000	MPa	MPa	%			MM						
					Max	40.0000	1.2000	180	350	54			10.1000						
l/m Batch No.	Mother Coil	Cast No.	Tonnage		Test Results														
01	PP09124N46	PP09124N46	A269058	2.769	194	38.0000	1.69	1.0100	179	309	48	0.23	OK	11.5000					
02	PP09124N47	PP09124N47	A269058	2.769	194	38.0000	1.69	1.0100	179	309	48	0.23	OK	11.5000					
03	PP09124N48	PP09124N48	A269058	2.784	195	38.0000	1.69	1.0100	179	309	48	0.23	OK	11.5000					

Route-BOF>CASOB>CC>HSM

1 MPa = 1 N/mm²
YS = Yield Strength
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)

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

Killing type: Steel is fully Aluminium killed
Material is ROHS Compliant
Tensile Sample testing transverse to rolling direction

Micro alloying elements (MA) : Nb+V+Ti
Material clearance date

04.11.2023
This TC is electronically generated

Certification signature by SVA PINL DATTATRAVA
DIAADGE
Unknown
Digitally signed by SVA PINL
DATTATRAVA DN: cn=DIAADGE
Date: 2024.07.10 05:11:17 IST
Location: Jamshedpur
Head Quality Assurance
TATA STEEL LIMITED