

Quality And Accreditation Institute Centre for Laboratory Accreditation

Scope of Accreditation

MDC TESTING AND CERTIFICATIONS

No. 79, 1st Floor, Royale Estate Chandigarh-Ambala Highway,
Zirakpur, District SAS Nagar,
Mohali-140603, Punjab, India

QAI/CLA/TL/2022/0004

Valid from : 22 February 2022
Valid until : 21 February 2024

Accreditation Standards: ISO/IEC 17025:2017

Mechanical Testing

Sl.No.	Product (S) Material of Test	Specific Tests Performed	Test Method
1.	Mechanical Properties of Metals including Stainless Steel, Titanium & Titanium Alloys, Cobalt Chromium Alloys & Titanium Nibonium, Aluminium	Axial Compression Bending (Single Cycle Compression / Bending) <ul style="list-style-type: none"> • Load • Proof Load • Fracture Load • Bending Strength • Bending Stiffness • Bending Structural Stiffness • Displacement Disassembly Force 	ISO 6892-1:2019 IS 14229:1995 ISO 9585:1990 ASTM 382:2014 ASTM F 384:2017 ASTM F 366:2017 ASTM F 564:2017 ASTM F 264:2016 ASTM F 1541:2017 ASTM F 1717:2021 ASTM F 1798:2021 ASTM F 2077:2018 ASTM F 2267:2018 ASTM F 1820:2013 ASTM F 1829:2017 ASTM F 2068:2015 ASTM F 2706:2018 ISO 7206-10:2018 ISO 7206-10:2018 (Amd 1:2021)
2.	Mechanical Properties of Metals including Stainless Steel, Titanium & Titanium Alloys, Cobalt Chromium Alloys & Titanium Nibonium, Aluminium	Axial Tensile Testing <ul style="list-style-type: none"> • Axial Pull Out Load • Expulsion Force • Disassembly Force • Displacement 	IS 1608-1:2018 ASTM F 543:2017 ISO 6475:1989 ASTM F 1541:2017 ASTM F 1717:2021 ASTM F 1798:2021 ASTM F 2706:2018 ISO 7206-10:2018 ISO 7206-10:2018 Amd.1:2018



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Mechanical Testing			
Sl.No.	Product (S) Material of Test	Specific Tests Performed	Test Method
3.	Mechanical Properties of Metals including Stainless Steel, Titanium & Titanium Alloys, Cobalt Chromium Alloys & Titanium Niobium, Aluminium	Fatigue Properties	ASTM 382:2014 ASTM F 384:2017 ASTM F 366:2017 ASTM F 564:2017 ASTM F 1264:2016 ASTM F 1541:2017 ASTM F 1717:2021 ASTM F 1798:2021 ASTM F 2077:2018 ASTM F 2267:2018 ASTM F 2706:2018 ISO 7206-4:2010 ISO 7206-6:2013
4.	Mechanical Properties of Metals including Stainless Steel, Titanium & Titanium Alloys, Cobalt Chromium Alloys, Titanium Niobium Alloys, Aluminium	Torsional Testing <ul style="list-style-type: none"> • Torsional Properties • Driving Torque • Static Torsional Testing • Static Torsional Test • Torsional Load • Torsional Stiffness • Breaking Angle • Angular Displacement 	ASTM F 543:2017 ISO 6475:1989 ASTM F 1541:2017 ASTM F 2706:2018 ASTM F 1264:2016 ASTM F 1541:2017

