

TESTING PRICE LIST





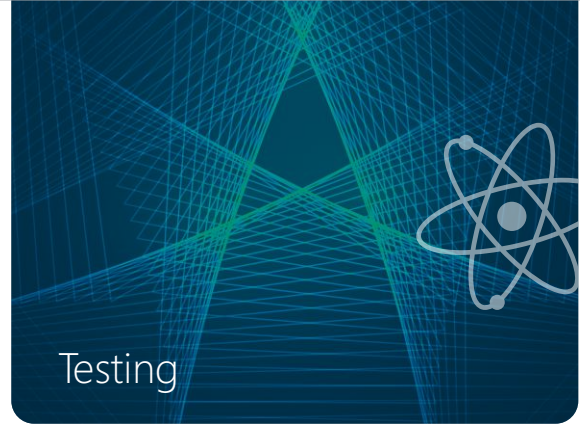
Laboratory services of the highest quality

Metal Power's Laboratory Division was founded in 2010. In the period since, Metal Power has quickly forged its reputation as one of the very best laboratories across multiple areas – all while rapidly-expanding breadth as well as depth of the services offered. While initially focused on Chemical Testing activities around solid metals and their alloys, the Laboratory has rapidly expanded its scope and today caters to myriad requirements across fields, spanning across both Chemical Testing as well as Material Testing of a wide range of sample types.

Located in the heart of Mumbai, Metal Power's Laboratories are equipped with the very best equipment and staffed with the very best talent in each area.

What makes us the very best?

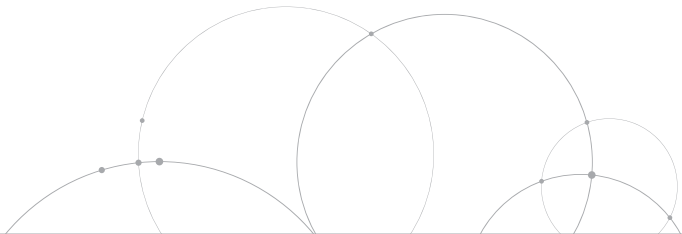
- State-of-the-art equipment
- Highly skilled personnel
- Accredited laboratories
- Follow all relevant ISO/IEC standards
- Located in the heart of Mumbai
- Products and Services offered globally



Metal Power operates world-class testing laboratories (accredited under ISO/IEC 17025) staffed with highly qualified chemists and metallurgists and equipped with state-of-the-art equipment across various types of chemical, metallurgical and mechanical testing. Our Wet (classical methods) Laboratory employs a vast array of empirical methods – several of which our team of chemists has developed in-house. Meanwhile, our Instrumental Lab leverages various types of spectrometers (emission, absorption, ICP), hardness testing equipment, combustion analysers and more, ensuring that all manner of samples can be analysed with the highest levels of accuracy and precision, offering customers the greatest assurance over our results.

Our comprehensive and symbiotic laboratory structure coupled with our best-in-class processes and personnel enables us to offer Umpire Laboratory Services to customers in cases that require dispute resolution from an impartial, unimpeachable and irreproachable third-party laboratory.

- Classical (Wet) Chemistry Laboratory
- Instrumental Lab
- Metallurgical Testing
- Mechanical Testing





Price list for Testing Services

Metals / Alloys, Ores / Minerals and Ferro Alloys



Chemical Analysis

Sl. No.	Description	Price for Standard analysis (in INR)
Ferrous & Non-Ferrous analysis by OES		
1	Single element by OES	300
2	Each additional element by OES	150
3	Grade Confirmation by OES	1,200
4	Boron by OES	500
5	Nitrogen By OES	500
6	Oxygen By OES	1,000
7	Purity analysis (by Total Impurities method)	2,500
Chemical analysis by Wet analysis / Classical Chemistry		
1	Single element by Wet analysis / Classical Chemistry	350
2	Each additional element by Wet analysis / Classical Chemistry	175
Chemical analysis by ICP / AAS		
1	Single element by ICP / AAS	500
2	Each additional element by ICP / AAS (other than special elements listed in Items 3&4 below)	250
3	Each additional special element by ICP / AAS (Hg, As, Se, Sb, Bi, Sn, Te, B)	600
4	Each additional precious metal element by ICP / AAS (Au, Os, Pt, Pd, Rh, Ru, Ir)	1,000
Powder analysis by ICP / AAS / Wet analysis		
1	Powder Analysis (Ores / Minerals / Ferro Alloys) - Single element	750
2	Powder Analysis (Ores / Minerals / Ferro Alloys) - each additional element	375
Other instrumental analysis		
1	Copper / Lead purity by electrolysis	800
2	Carbon & Sulfur by C-S analyzer (Leco)	600



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Mechanical & Metallurgical Testing

Sl. No.	Description	Price for Standard analysis (in INR)
1	Tensile Testing (UTS, %EL, %RA)	300
2	Tensile Testing (UTS, %EL, %RA, Proof Stress)	500
3	Tensile Testing (UTS, %EL, %RA, Proof Stress, Young's Modulus)	650
4	Bend / Re-Bend Test	225
5	Impact test at room temperature	250
6	Impact test up to -50°C	300
7	Impact test (-51°C to -190°C)	400
8	Brinell Hardness (BHN)	150
9	Rockwell Hardness (HRC, HRB, HRA)	150
10	Vickers Hardness (HV)	200
11	Micro Vickers Hardness (HV)	500
12	Case depth analysis by Micro Vickers	1,000
13	Case depth measurement by microscope	500
14	Ferritic grain size analysis	1,000
15	Austenitic grain size analysis	2,000
16	Phase analysis	1,500
17	Micro structure analysis	500
18	Non-metallic inclusion rating (A, B, C, D Thick/Thin)	800
19	Coating thickness measurement by microscope	500
20	Decarburization depth measurement by microscope	500
21	Graphite nodularity analysis	500
22	Macro etch analysis	600
23	Grain flow analysis	600

Note:

- ICP refers to ICP-OES • Sample preparation charges shall be extra • Minimum order value: INR 1,000/-
- If samples need to be returned, the charges shall be additional and will be billed at actuals • Typical turn-around time: 5 working days
- Witness charges of INR 500 per visit / test shall be applicable • 10% extra charges are applicable for reports stamped with A2LA symbol.

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