



AGRO MET LAB

AML
"A True Report"

A COMPLETE METAL TESTING LAB



TC-8257

AGRO MET LAB is ISO/IEC 17025 Accredited Testing Laboratory by NABL vide Certificate number TC-8257 for Chemical , Mechanical , Metallography , Corrosion and PMI(NDT) testing of metals.

AGRO MET LAB is conveniently located in Sanganoor road, Ganapathy, which is the center of Coimbatore's steel / metal industry and hub of Metal market. AGRO MET LAB is managed by professional team of highly qualified & experienced peoples in chemical & metallurgy field.

OUR FACILITIES :

CHEMICAL TESTING (By Spectrometer)

- * Carbon Steels / MS
- * Low Alloy Steels
- * Stainless Steels
- * Tool Steels
- * Cast iron / SG iron / Ni-Hard
- * Nickel base alloys (Monel , Inconel, Hastelloy etc.,)
- * Aluminium base alloys (Al-Si alloy, Al-Cu alloy , Al-Zn alloy etc.,)
- * Copper base alloys (Brass, Bronze, Gun metal etc.,)
- * Zinc alloys (Mazak)
- * Cobalt base alloys



CHEMICAL TESTING (By PMI - XRF Analyzer)

- * Grade segregation
- * Alloy Identification
- * On-site / job works on rental basis

METALLOGRAPHY TESTINGS

- * Micro structure evaluation (Ferrous and Non- Ferrous)
- * Flakes & Nodularity rating for cast iron
- * Ferrite count measurement
- * Porosity , Inclusion rating
- * De-carburization measurement (Traverse & Microscopic)
- * Plating & coating thickness measurement
- * Anodizing layer measurement
- * Nitriding depth measurement
- * Grain size & Grain flow measurement
- * Case depth measurement (Traverse & Microscopic)
- * Macro examination (Weldment & Wrought products)





MECHANICAL TESTINGS

- * Tensile strength , Yield strength , Elongation in % , Reduction of area in % , (0.1,0.2 & 0.5%)Proof stress.
- * Hardness Test (Rockwell hardness, Brinell Hardness, Vickers Hardness, Micro- Vickers Hardness, Portable Hardness).
- * Impact Test (Charpy - Room temperature to -196°C / Izod)
- * Bend , Re-bend , Flattening , Flaring , Drift expansion, Crushing , Double Shear , Tensile Shear , Chisel & Peel , Fillet Fracture , Nick break Test.
- * Load test (Pull ,Tensile & Compressive)
- * Welding / Welder qualification

For wrought products , bars, rods & shapes ,plate, sheet/strips, pipes, reinforcement bars, castings , forgings, hardened , Welded samples.

CORROSION TESTING

- * Inter-granular corrosion attack
ASTM A262 Practice A,B,C,E,F
ASTM A763 Method W,X,Y,Z
ASTM G28 Method A,B
ASTM G110
ISO 3651-1 & ISO 3651-2 Method A,B,C
- * Pitting & crevice corrosion
ASTM G48 Method A,B,C,D,E,F
- * Detecting Detrimental Intermetallic Phase
ASTM A923 Method A,C
ASTM A1084 Method A,C
- * Metallic Material and Coated Metallic Substrate
Salt Spray (Fog) per ASTM B117
Neutral salt spray (NSS) per ISO 9227
- * Mass of Zinc coating



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