SPECTRO provides refractory Testing & Inspection Services throughout India, ranging from Refractory Manufacturers and Users. With modeling and testing facilities available in-house and many years of industrially relevant experience, SPECTRO provide complete testing solution of Refractories.

SPECTRO provides full range of Physical, Chemical and Mineralogical, Thermo-Mechanical Testing of refractory materials, from simple chemical analysis to a fully QA/QC test house provision. The tests of the products can be performed before or after use to confirm suitability or fitness for purpose.

The tests are performed as per IS, BS, ISO or ASTM standard test procedures to confirm to the standard norms and to meet the customer's needs.

SPECTRO labs are equipped with wide range of microanalysis facilities and XRD Equipment that complements chemical analysis by XRF, AAS or wet chemical methods.

Whether by routine compliance testing or detailed examination of used materials, the skills of the SPECTRO staff provide both peace of mind and the potential for more effective and lower cost operations.

### Chemical
- XRF (X-Ray Fluorescence)
- Mineralogical testing by XRD

### Microstructure Evaluation
- Petrographic analysis by Optical Microscopy

### Physical
- Modulus of Rupture
- Abrasion resistance
- Density and porosity
- Pyrometric Cone Equivalent (PCE)
- Particle Size Determination (PSD)
- Cold Crushing Strength
- Air permeability Test
- Dimensional check
- Mohs Hardness
- Specific Gravity

### Thermo mechanical
- Compressive stress/strain
- Flexural stress/strain
- Thermal conductivity upto 1250°C
- Thermal shock resistance
- Creep Test
- Specific Heat
- Refractories Under Load (RUL)
- Permanent Linear Change (PLC)
Major Activities

- Metals & Alloys
- Non Destructive Testing
- Rubber & Polymers
- Food and Agro Products
- Coal, Solid Fuels & Petroleum
- Electrical & Electronics
- Pharmaceuticals & Drugs
- Building Materials
- Minerals & Chemicals
- Leather & Textiles
- Water & Environment
- Paper & Packaging Materials
- Hazardous Substances
- Clean Room Validation

CIN : U74220DL1998PLC092698

Head Office
E-41 Okhla Industrial Area Phase-II
New Delhi-110020
Ph:- 91 11 40522000, 41611000
E-mail: care@spectro.in
URL:- www.spectro.in

Corporate Office
S-1 GNEPIP, Surajpur Industrial Area
Kasna, Greater Noida, Phase-V
Gautam Budha Nagar (U.P.)
Pin Code: 201308
Ph:- 0120-2341251/52
E-mail:- care@spectrogroup.com
URL:- www.spectrogroup.com

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