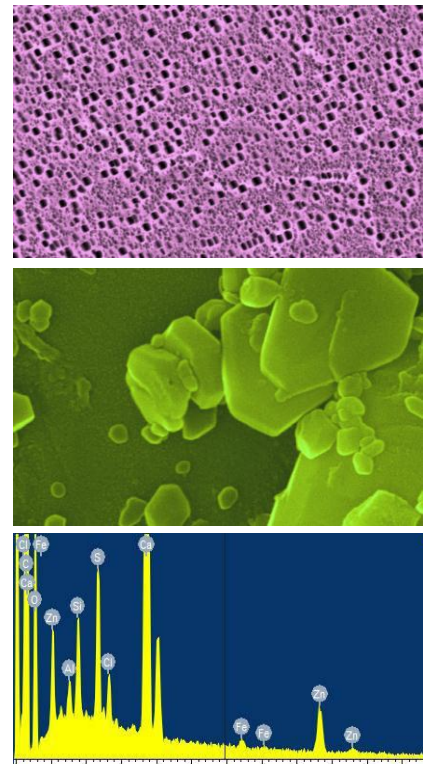


SEM + EDS SYSTEM



SPECIFICATIONS

Scanning Electron Microscope (SEM)

- Make : Pemtron Corporation, Korea
- Model : SEMART SS- 100
- Resolution : 3 nm
- Filament : Tungsten
- Max Magnification : 20x -100000X
- 5 axis Manual Stage movement
- (X, Y, Z, Tilt and Rotation)

Energy Dispersive Spectrometer of X-Rays (EDS Analyzer)

- Make : Oxford Instruments, UK
- Model : X-Max 20
- Resolution : 124 eV @ MnK α
- Detector Area : 20 mm²

Contact us for further details -
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Ph : +91-265-2657233

TCR ADVANCED OFFERS IN-HOUSE SEM AND EDS ANALYSIS SERVICE.

TCR advanced has procured state of the art Scanning Electron Microscope (SEM) attached with Energy Dispersive Spectrometer (EDS) system. SEM is a great diagnostic tool for

- Failure investigation
 - Fractography
 - Quality control
 - Morphology and identification of localized defects
 - Identifying corrosion products at microscopic levels
 - Identifying Surface coating or plating
 - Particle size & shape analysis
 - Characterizing creep in microstructure
 - Identifying submicron features in microstructure
 - Identification of Inclusions in metals.
- SEMART SS-100 offers simple and very user friendly operating console. It is equipped with turbo molecular pumping system to achieve the high vacuum.

It requires absolutely no start-up time.

The EDS Analyzer X-Max 20 is a versatile X-Ray spectrometer system which does not require Liquid nitrogen for its operation. This greatly reduces the start-up time of EDS analyser as compared to conventional system.

The large detector area of 20 mm² gives better count rate at lower accelerating voltages and lower spot sizes resulting in improved accuracy and quantification of elements which is sometimes is a limitation of the conventional EDS detectors with 10 mm² area. Typical applications of SEM are

- Material Characterization/ Testing
- Metal manufacturers.
- Pharmaceutical Industries
- Corrosion inspection department.
- Cement industries.
- Dyes & Pigments Industries
- Applied research in material science