NACE CODE C20, C21, C26, C29, C30, F42, M72

X-RAY LABORATORY

Advanced Service Available - The ENEA X-ray laboratory owns equipment (radiogenic tubes, spectroscopic and imaging detectors) for the study and characterization of low-z (foams, gels or other materials), homogeneous or multilayer, and mechanical micro-components. Unlike the commercial equipment for fluorescence, diffractometry, radiography or tomography (non-flexible and with limited performance), innovative and optimized configurations can be realized in laboratory, with new detectors capable of energy discriminations and with further devices (such as X-ray optics, collimators, etc...).
This configuration allows to optimize the performance of diagnostics and enables the development of new products and industrial processes.

Uses - Custom setup of fluorescent measurement lines, diffractometry, radiography and tomography with flexible configurations and non-commercial detectors for specific studies related to industrial objectives, with operation capability extensible to the hard X-ray region (up to 250 keV).

Past and Present Activities - Measurement lines for fluorescence, diffractometry, tomography and radiography have already been developed in the lowest energy region (2-80 keV).

Characteristics: CUSTOM
Thanks to its flexibility, the X-ray Laboratory Service can be adjusted to different needs and contexts.

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