

REALISATION OF PROTECTIVE COATINGS THROUGH HIGH TEMPERATURE SPRAY DEPOSITION / DETONATION GUN

Innovations and Benefits - By using the Detonation Gun, it is possible to realize surface coatings on components of different sizes, with various types of coatings, at ENEA laboratories.

Use - Realization of surface coatings.

Applications and ongoing Activities -

The Detonation Spray device is capable of creating surface coatings on large components (on flat surfaces up to 1000mmx1000mm and cylinders with a maximum diameter of 400mm). The surface coatings are made of Al2O3 / Al2O3 + intermediate layers on T91, AISI 316, AISI 304 or metal powders.

This technology is used in applications for fourth generation fission reactors.

