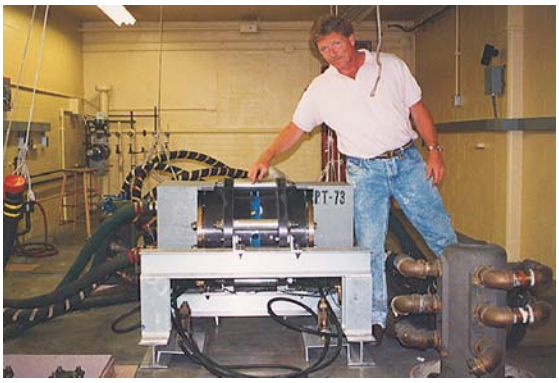
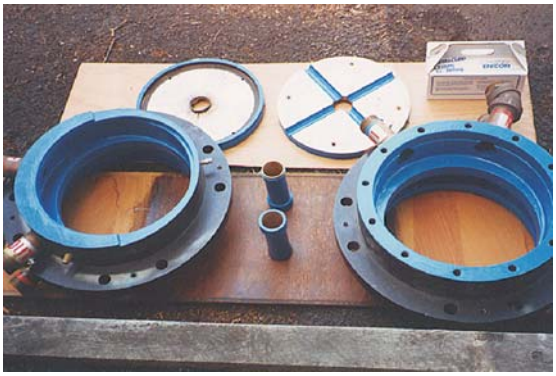
ENECON® NEWS

MT-017

A World Renown University Selects CeramAlloy to Solve Severe Corrosion Problem on Super Magnet!





This world class University's Magnetic Laboratory provides some of the world's most powerful and versatile electromagnets for a variety of research needs.

This particular multipurpose electromagnet is one of the latest designs from the Laboratory. At 17 Tesla (that's 170,000 gauss), it can generate the highest electromagnetic field for a radial magnet in the world!

To cool the magnet, 1500 G.P.M. of distilled water is pumped through at 200 P.S.I.. 40,000 amps at 230 volts are used to power the unit. Unfortunately, these severe operating conditions have made previous coating attempts temporary at best.

The university's scientists are always searching for state-of-the-art materials which can keep pace with the demands of their innovative equipment designs. They were, therefore, extraordinarily pleased to "discover" the ENECON high performance repair and protection materials which have now been used to solve a wide variety of problems at the university.

CeramAlloy has also been used by university engineers to protect the aluminum access tubes for the Laboratory Hybrid 11(30 Tesla) electromagnet. Their Hybrid III unit is the world record holder for a continuous field magnet at 33.5 Tesla!

University engineers have ordered additional stocks of ENECON repair and protection materials for on-going erosion and corrosion problems as these arise.

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