

**Customer: Power engineering repair plants**

**Made by: Brigade of repair plants**

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**PROBLEM DESCRIPTION:** In the operation of transformers, a significant problem is the leakage of transformer oil through leaky welds connecting the sheets. Despite the great diligence of welders, it turns out that the problem of "sweating" of welds occurs very often, which requires welding corrections during tightness tests or at the user's.

**DESCRIPTION OF THE REPAIR:** Prophylactic covering of the entire length of the welds inside the transformer tank with **Chester Metal Ceramic F** was proposed. Sandblasted or sanded welds after degreasing **Chester Ultra Fast Degreaser F-6** were covered with the above-mentioned material using a short, stiff brush.

**ACHIEVED EFFECTS:** The plant had previously performed a leak test of a small tank, deliberately defective welded and secured with the above-mentioned technology. A pressure test of 0.8 MPa with the use of a penetrator and a lamp showed 100% tightness of the protected joints. Preventive protection of joints will allow you to avoid costs related to warranty (or post-warranty) repairs resulting from the need to remove leakage or seepage of oil outside the device.

