

DATA SHEET GRAPHITE ELECTRODES

ANTIOXIDATION TREATMENT

Elements of composition: Al, Si, Cr, Ni, Zr, O.

Process: The materials that compose the coating are impregnated under vacuum inside the electrode to a depth of 5-10 cm. Accordingly, there isn't coating on the surface, so the diameter of the electrode is not affected.

When the temperature rises above 1000°C, the impregnated material from the inside passes over the surface of the electrode making a coating similar to the ceramic material.

The specific resistance and all other parameters remain unchanged, only the density undergoes a slight increase.

Thanks to the lower surface oxidation the coating ensures a reduction in the consumption of graphite attested between 10% and 20%.

The impact of the coating on the final product is practically irrelevant, because the coating itself is composed of very small amounts of material.