

ENCAPSULATION
High-temperature
SC 400

SC400 is a fully waterproof encapsulation, suitable for operation at high temperatures.

As the core of all high-power heaters, magnesium oxide (MgO) is an excellent electrical insulator and a good thermal conductor, but it is also highly hygroscopic. When the heaters are not in operation, it absorbs moisture from the surrounding environment, reducing its insulating properties. This may cause a short circuit or burnout when voltage is applied.
If the temperature at the heater head does not exceed 260°C, resin or silicone encapsulation elements may be used. Otherwise, preventive measures must be taken to avoid damage.

Rotfil offers a patented solution to this problem. SC400 is a fully waterproof encapsulation, impermeable and capable of withstanding prolonged exposure to high pressures and temperatures up to 400°C.

SC 400 does not change its structure and characteristics over the years, maintains its water and acid resistance, and does not form carbon deposits. It is not recommended for use as an immersion heater.

SC 400 completely protects all internal components from contamination and oxidation and increases the service life of the heater.

The use of ULTAMAX SC 400 is essential whenever a high level of protection and durability is required. Typical applications include medical and surgical equipment, aerospace applications, and others.



