

**Information about the content**

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*SIBOR® is a patented oxidation protection coating on molybdenum components used in the glass industry, e.g. as glass melting electrodes or glass tank reinforcements.*

## 1 Dimensions and tolerances

### 1.1 General requirements

The component must not exceed 200 kg.

Outer diameter: max. 580 mm

Inner diameter: min. 300 mm (up to a max. length of 500mm)

Special sizes on request.

### 1.2 Flat components

Max. dimensions: 1040 x 650 x 500 mm

### 1.3 Glass melting electrodes

Diameter: 31.75 - 152 mm and lengths up to max. 1800 mm

## 2 Product properties

### 2.1 SIBOR® layer

180 ± 30 µm (eddy current test – measured directly after the coating process)

In addition, the coating thickness is checked by eddy current testing after annealing.

### 2.2 Microstructure base material

Annealing is necessary for conditioning of coating and leads to a shift of microstructure of the base material.

### **3 Chemical composition**

The chemical composition of the SIBOR® coating is defined by the used powder and contains the elements Si, B and C.

### **4 Machining**

After coating, a machining process is only possible in special cases, apart from thread machining at the ends or connections. Machined areas do not longer have oxidation protection.

### **5 Surface condition**

In a visual inspection it is checked that there are no uncoated areas of the SIBOR® layer or any delamination of the coating. Stains may occasionally form on the surface, but this will not affect the oxidation protection properties.

## 6 Packaging, labelling, storage and certification

### 6.1 Packaging, labelling and storage

**Standard individual packing:** Wooden box/cardboard packaging with separating material between the coated components.

**Special packaging:** On special request, the components can be packed individually in PE bags with the addition of desiccant.

**Each transport packaging is marked with a label.**

The material must be kept in a dry place and protected from mechanical damage and if possible, it is best to keep the material in their original packing until used.

**Special packing: (extra costs will be invoiced)**

Special packing should be used if the material is stored under unusual conditions (aggressive atmosphere (sea air, ...))

### 6.2 Inspection documents

Following inspection documents will be supplied upon customer request according to EN 10 204:

**Test report 2.2**

Plansee confirms with this test report that the delivered product meets the specification and gives details of the material properties according to ongoing production surveillance, not directly related to the particular production batch.

**Inspection certificate 3.1 (extra costs will be invoiced)**

An inspection officer from Plansee confirms with this inspection certificate that the delivered product meets the specification and gives test results related to the particular production batch.

## 7 Order instructions

Please quote following information when ordering:

- Product and material description
- Quality (the number of this specification must be mentioned)
- Dimensions of part
- Thread size (if applicable) (should non-standard threads be required, a drawing with all relevant sizes should be made available)
- Quantity (number of pieces or total weight in kg)
- Required certificate and content in case of a 3.1 inspection certificate
- *For special packaging:* Specification of packaging

You can find more information about our delivery options at <http://www.plansee.com>.

### Changes to last version

Replacement for	Changes to last version
PSE-610-PS-256 Rev 00	■ Revision of content and introduction of new document layout