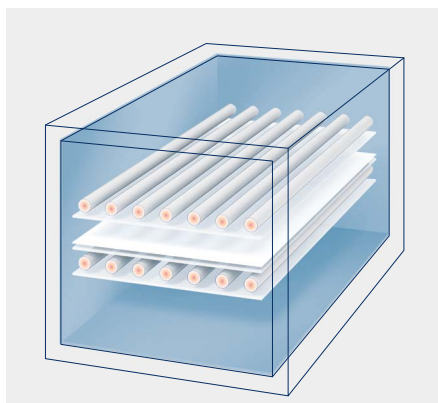


SCHOTT NEXTREMA® glass-ceramic solutions for machinery and plant engineering

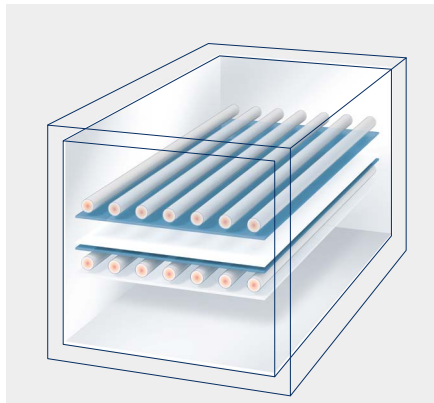
Excellent IR-transmittance for all kind of heating & high temperature applications

Improving performance while controlling costs is a key success factor in machinery and plant engineering. NEXTREMA® is a versatile glass-ceramic material platform that combines a range of technical properties for demanding high-temperature applications. Its process-inert characteristics make it suitable for use as inner linings, infrared heater covers, and carrier plates, for example in inline or batch furnaces.



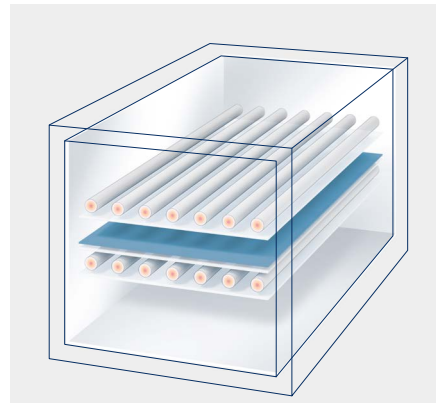
Inner lining / insulation

- NEXTREMA® opaque white can support improved thermal insulation compared to other NEXTREMA® types due to its low transmission in the IR range.
- Machine-processable material e.g. cut-outs for supply pipes



Heater cover

- Process inert
- Easy-to-clean in sputter processes
- High transmission
- Near-zero thermal expansion



Carrier plates / substrate support

- Near-zero thermal expansion enables rapid heating and cooling
- High mechanical strength

Overall technical properties:

- Near zero thermal expansion
- Operating temperature up to 950 °C¹ (1,742 °F)
- UV blocking and broad transmission spectrum in the range of visible light and infrared radiation
- Low thermal conductivity
- Thermal shock resistance up to 820 °C² (1,508 °F)
- Non-porous surface
- Process inertness
- Smooth and chemically resistant surface

¹Applies to NEXTREMA® opaque white only. Thermal shock resistance may vary for other NEXTREMA® variants.

²Applies to NEXTREMA® transparent only. Thermal shock resistance may vary for other NEXTREMA® variants.

³Up to Gen 6 formats have to be evaluated on request.

⁴Other thicknesses or shapes are available on request.

Examples of industries and applications:

- Display manufacturing – AMOLED, LTPS and Oxide TFT, Polyimide curing
- Solar panel manufacturing – CIGS, CdTe
- Food processing
- Drying and curing of coatings

Dimensions and shapes:

- Maximum dimension: 1954 mm x 1100 mm³
- Thickness: 3-6 mm⁴
- Cut-to-size
- Flat and bent parts⁴
- Additional processing possible

schott.com/nextrema

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