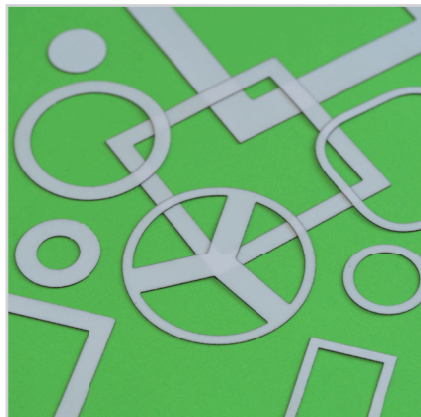


## Glass Sealing Tapes and Paste KeraGlas ST K03

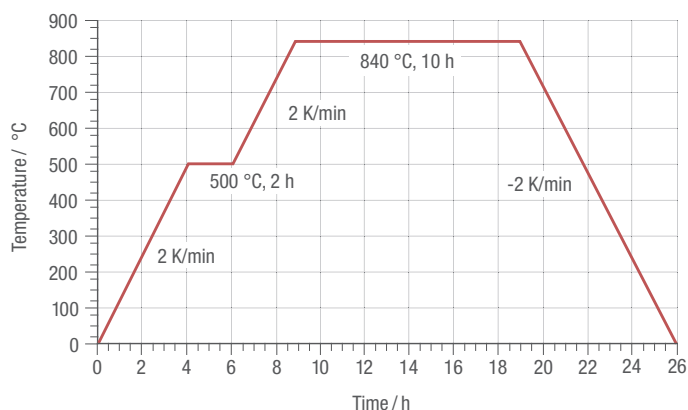


### Key features

- alkali-free glass sealing material
- gas-tight after sintering
- long-term stable, chemically inert
- formation of stable glass ceramics after partial crystallization
- joining of steel/steel or steel/ceramic or ceramic/ceramic
- temperature-resistance adhesive
- protective covering

| Characteristics                 | Unit    | KeraGlas ST K03  |
|---------------------------------|---------|--|
| TEC 660°C of crystallized glass | [ppm/K] | 10.0 ± 0.5   |
| TEC range of joining partners   | [ppm/K] | 8.0 ... 12   |
| Max. operation temperature      | [°C]    | 820  |
| Joining temperature             | [°C]    | 830... 850   |
| Compatible ceramics             |         | YSZ / ScSZ / Al <sub>2</sub> O <sub>3</sub>  |
| Compatible steels               |         | CFY / CroFer22APU / ZMGL / ITM / CroFer22H   |
| Known non-compatibilites        |         | La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> , La <sub>1-x</sub> Sr <sub>x</sub> Mn <sub>1-y</sub> Co <sub>y</sub> O <sub>3</sub> / MnCo <sub>2-x</sub> Fe <sub>x</sub> O <sub>4</sub> |
| Standard thickness of tapes     | [µm]    | 250 and 350 (other thicknesses on request)   |
| Viscosity of paste              | [Pa·s]  | 50-70 at 10 s <sup>-1</sup> , 25 °C  |

K03 glass sealing tape - joining profile



**NOTE:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.