

Technical Data Sheet

Solutions for Structural Ceramics

90 741 F - Special glass

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| Color shade | Colorless |
| Application | Lead-free*, low-melting special glass for ceramic bonds (i.e. diamond, CBN) |
| Storage | Frits should be stored in a dry place. Partly used tins must be tightly sealed after use. |
| Environment | Waste material treatment, environmental health and safety protection has to follow the local regulations and legislation. |

Chemical characteristics:

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|--------------------|--|
| Chemical character | Li ₂ O-K ₂ O-Na ₂ O-MgO-CaO-Al ₂ O ₃ -Bi ₂ O ₃ -TiO ₂ -ZrO ₂ -SiO ₂ -B |
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Physical characteristics:

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|--|--|
| Lin. coeff. of thermal expansion [10 ⁻⁷ /K] | 84 |
| Transformation temperature [°C] | 498 |
| Softening temperature [°C] | 620 |
| Softening intervall [K] | 120 |
| Half ball temperature [°C] | 740 |
| Form | Powder |
| Density [g/cm ³] | -- |
| Fineness | F max.3%>63 µm -- mesh D90 ~ 45 µm D50 ~ -- µm |
| Grain typ | -- |
| Grain [mm] | -- |

Firing conditions:

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| Firing range [°C] | -- |
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| Comment * | Substance is not part of the recipe. No routine tests regarding impurities of this substance. |
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