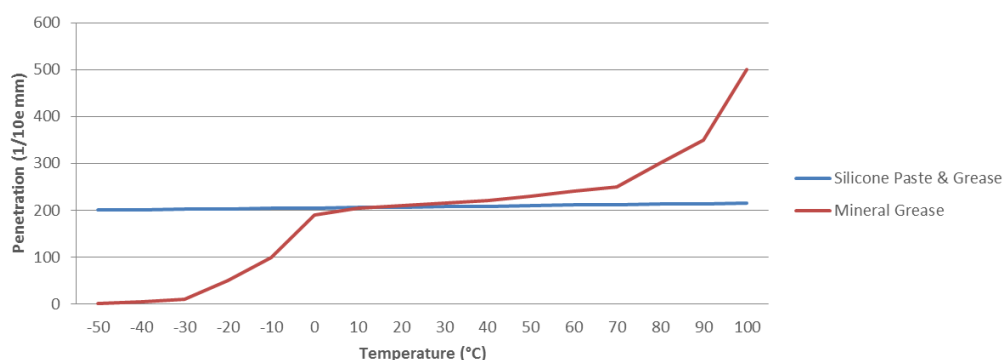


Selection Guide Silicones Pastes and Greases

| | |
|---------------------|---------------------------|
| Brand | Calsil |
| Market | Machinery & Equipment |
| Product name | Calsil Pastes and Greases |

Main Properties of CALSIL Silicones Pastes and Greases

- High hydrophobicity
- Good dielectrical properties
- Outstanding Weather ability (UV / Thermal / Chemical)
- Stability of the rheology on a large range of temperature



Due to those properties, our CALSIL Silicones Pastes and Greases are ideal for a lot of technical applications

- Lubricating at extreme temperature - 60°C + 200°C
- Protection
- Potting
- Electrical insulation
- Sealing
- Thermal dissipation


See main Physical and Electricals properties on verso

For more information, please contact us

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Selection Guide

| Applications | Calsil Paste 4 FG | Calsil Paste 5 HVI | Calsil Paste T30 | Calsil Paste 408 ES | Calsil Paste Vacuum | Calsil Paste 431 | Calsil Paste MR7 | Calsil Grease 33 | Calsil Grease 55 |
|-----------------------------|-------------------|--------------------|------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|
| Electrical insulation | ● | ● | | ● | ● | ● | | | |
| Thermal Dissipation | | | ● | | | | | | |
| Humidity Protection | ● | ● | ● | ● | ● | ● | | | |
| General Purpose Lubrication | ● | ● | | | ● | ● | ● | ● | ● |
| Vacuum Lubrication | | | | | ● | | | | |
| Sealing | ● | | ● | | ● | ● | | | |
| Demoulding | | | | ● | | | ● | | |
| Tap release | ● | | | | | | | | |

| Physical Properties * | Calsil Paste 4 FG | Calsil Paste 5 HVI | Calsil Paste T30 | Calsil Paste 408 ES | Calsil Paste Vacuum | Calsil Paste 431 | Calsil Paste MR7 | Calsil Grease 33 | Calsil Grease 55 |
|--|--------------------|--------------------|--------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|
| Colour | Translucent | White | White | Grey | Translucent | Translucent | Translucent | Light brown | Light brown |
| Minimum Temperature service (°C) | -40 | -50 | -50 | -40 | -40 | -60 | -40 | -70 | -65 |
| Maximum Temperature service (°C) | 200 | 200 | 300 | 200 | 220 | 200 | 200 | 180 | 175 |
| Consistence NLGI | N.4 | | N.2 | N.2 | N.4 | N.0 | N.2 | N.2 | N.2 |
| Worked Penetration (mm/10) | 175 - 205 | 190 - 250 | 265 - 295 | 265 - 295 | 175 - 205 | 355 - 385 | 265 - 295 | 265 - 295 | 265 - 295 |
| Relative Density at 25 °C | 1.01 | 1 | 2.2 | 1.02 | 1.01 | 1.1 | 1 | 1.03 | 0.99 |
| Weight Loss (24h / 200°C) - max | 2 | 0.5 | 1.5 | 3 | 2 | < 3 | < 5 | < 3 (150°C) | < 2.5 (100°C) |
| Bleed (%) (24h / 200°C) - max | 6 | 0.1 | 1.5 | 0.5 | 0.5 | | < 10 | < 4 (150°C) | < 5 (100°C) |
| Thermal Conductivity (W/mK) | | 0.20 | 0.45 | | | | | | |
| Dielectric Strength (kV/mm) - mini | 20 | 19.5 | 15 | 20 | | | | | |
| Dielectric Constant at 1MHz | 2.74 | 2.9 | 3.5 | 2.5 | 2.75 | 2.60 | 2.74 | | |
| Power Factor at 1MHz | 5x10-4 | 1.5x10-3 | 4.9x10-3 | 3x10-3 | | | | | |
| Volume Resistivity at 23 °C - min (Ω cm) | 1x10 ¹³ | 1x10 ¹⁵ | 1x10 ¹³ | 1x10 ¹³ | | | | | |
| Dielectric Breakdown Voltage (kV) | | 26 | | | | | | | |

*Typical Properties (not for sales specifications, please contact us prior to writing sales specs)