

Overview of Insulation Materials for Tool and Mould Making

| | Operation Temperature | | Thermal Conductivity (W/mK) | Compressive Strength (N/mm ²) | | | Flexural Strength (N/mm ²) at 23°C | Linear Coefficient of Expansion (10 ⁻⁶ 1/K) |
|--------------------------------------|-----------------------|------------|--------------------------------|--|----------|---------|--|---|
| | (°C) | | | (N/mm ²) | | | | |
| | long-term | short-term | at 23°C | at 200°C | at 250°C | at 23°C | | |
| FRATHERNIT[®] DN | 200 | 210 | 0,18 | 330 | 120 | - | 140 | 18 |
| FRATHERNIT[®] AN | 200 | 210 | 0,19 | 600 | 350 | - | 380 | 13 |
| FRATHERNIT[®] 4000 | 200 | 230 | 0,13 | 300 | 100 | - | 200 | 20 |
| FRATHERNIT[®] AE3 | 250 | 260 | 0,23 | 470 | - | 250 | 425 | 19 |
| FRATHERNIT[®] AS | 270 | 280 | 0,25 | 400 | 260 | 200 | 120 | 16 |
| FRATHERNIT[®] 2000 B | 200 | 210 | 0,12 | 300 | 110 | - | 130 | 18 |
| FRATHERNIT[®] 2000 M | 350 | 400 | 0,1 | 38 | - | 25 | 20 | 40 |
| FRATHERNIT[®] SG | 500 | 600 | 0,35 | 400 | 250 | - | 200 | 10 |

The standard values shown in this data sheet are measured by standard test methods. In reliance on operation terms and dimensions the material properties can differ from these values. Please contact our applications and sales engineers to clarify the suitability of our materials for your application. Further technical information can be given with our specific material data sheets.

Issue October 2007.