

Application overview – Geberit Mapress CuNiFe

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| Application purposes | Operating temperature | Maximum operating pressure | Pipes | Fittings | Seal rings | | Flat gaskets for screw connections | | | Flange gaskets |
|--|-----------------------|----------------------------|--------|----------|-----------------|-----------------|------------------------------------|-----------------|----------------------|-----------------------|
| | | | CuNiFe | CuNiFe | CIIR, black | FKM, blue | EPDM, black | FPM, green | Centellen® R WS 3825 | Centellen® HD WS 3822 |
| Liquid media | | | | | | | | | | |
| For cooling water without antifreeze agent | 0–100 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For cooling water with antifreeze agent | -30 – +120 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ ²⁾ | | | | ✓ | ✓ |
| For service water | 0–100 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ ³⁾ | | ✓ ³⁾ | | | ✓ ³⁾ |
| For grey and black water with pH value > 6.0 | 0–100 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For seawater | 0–100 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For extinguishing water (wet) | 0–70 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For sprinklers (wet) | 0–70 °C | 13 bar / 1300 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For mineral and lubricating oil | Upon request | Upon request | ✓ | ✓ | | ✓ | | ✓ | | ✓ |
| For motor fuels (e.g. diesel) | Upon request | Upon request | ✓ | ✓ | | ✓ ³⁾ | | ✓ ³⁾ | | ✓ ³⁾ |
| Gaseous media | | | | | | | | | | |
| For compressed air (oil purity class 0–3) | 0–100 °C | 10 bar / 1000 kPa | ✓ | ✓ | ✓ ⁴⁾ | | | | | ✓ |
| For compressed air (oil purity class 0–4) | 0–100 °C | 10 bar / 1000 kPa | ✓ | ✓ | | ✓ ⁴⁾ | | ✓ ⁴⁾ | | ✓ |
| For negative pressure ¹⁾ | 0–40 °C | Abs. ≥ 0.2 bar / 20 kPa | ✓ | ✓ | ✓ | | ✓ | | | ✓ |
| For inert gases (e.g. nitrogen) | Upon request | Upon request | ✓ | ✓ | ✓ ³⁾ | | ✓ ³⁾ | | | ✓ ³⁾ |

✓ Application generally approved if the defined additional requirements are met in accordance with the footnotes

¹⁾ Usable negative pressure for Geberit piping systems:

The usable negative pressure is calculated on the basis of the air pressure at the place of installation minus the absolute pressure of 200 mbar.

Example: 980 mbar air pressure - 200 mbar absolute pressure = 780 mbar usable negative pressure in the piping system

²⁾ Only use approved antifreeze agents

³⁾ After Geberit approval

⁴⁾ Oil purity class in accordance with ISO 8573-1:2010E; for details on moisture and particles, see technical information „Geberit Piping Systems for Compressed Air Installations“