

DIN 51825 Classification system

The DIN classification system specifically requires the following, though some of the initial designation information is often omitted (i.e. sometimes only K 1 G is offered, form the following example).

Schmierfett DIN 51825 - K 1 G -20

| | | | |
|--------|-----------|------------|--|
| Grease | DIN 51825 | K | = Grease (KP= grease with EP additives, KPF= grease with EP and solid additives) |
| | | 1 | = NLGI Grade (see NLGI classification) |
| | | G | = Upper operating temperature and water resistance (see below) |
| | | -20 | = Lower operating temperature |

Third designation letter

| Letter | Upper operating temperature (°C) | Water resistance DIN 51807 |
|--------|----------------------------------|----------------------------|
| C | +60 | 0-40 to 1-40 |
| D | +60 | 2-40 to 3-40 |
| E | +80 | 0-40 to 1-40 |
| F | +80 | 2-40 to 3-40 |
| G | +100 | 0-90 to 1-90 |
| H | +100 | 2-90 to 3-90 |
| K | +120 | 0-90 to 1-90 |
| M | +120 | 2-90 to 3-90 |
| N | +140 | No requirement |
| P | +160 | No requirement |
| R | +180 | No requirement |
| S | +200 | No requirement |
| T | +220 | No requirement |
| U | >+220 | No requirement |

