

Material Range

Lamellar Graphite Cast Iron (Grey Cast Iron) in Compliance with DIN EN 1561 (DIN 1691)

| Material | Relevant wall thickness mm | | Tensile strength in cast samples | Tensile strength expected values in the casting | Brinell hardness HB 30 | | Compressive strength σ_B |
|-----------------------------|----------------------------|-------|----------------------------------|---|------------------------|------|---------------------------------|
| | more than | up to | Rm = N/mm ² | Rm = N/mm ² | min. | max. | N/mm ² |
| EN-GJL-200 GG-20 | 2,5 | 5 | | 230 | 190 | 275 | 720 |
| | 5 | 10 | | 205 | 170 | 260 | |
| | 10 | 20 | | 180 | 150 | 230 | |
| | 20 | 40 | 170 | 155 | 135 | 210 | |
| | 40 | 80* | 150 | 130 | 120 | 195 | |
| EN-GJL-250 GG-25 | 5 | 10 | | 250 | 200 | 275 | 840 |
| | 10 | 20 | | 225 | 180 | 255 | |
| | 20 | 40 | 210 | 195 | 160 | 235 | |
| | 40 | 80* | 190 | 170 | 145 | 215 | |
| EN-GJL-300 GG-30 | 10 | 20 | | 270 | 200 | 275 | 960 |
| | 20 | 40 | 250 | 240 | 180 | 255 | |
| | 40 | 80* | 220 | 210 | 165 | 235 | |

* 30 mm test bar

| Material | Material number | Material description to the European Standard DIN EN 1561 | Material number | Values in the separately cast test bar | | Density ρ |
|-----------------------------|-----------------|---|-----------------|---|---------------------------|----------------|
| | | | | Tensile strength* Rm = N/mm ² | Brinell hardness HB 30 | g/ccm |
| EN-GJL-200 GG-20 | 0.6020 | EN-GJL-200 | EN-JL-1030 | 200-300 | 180-220 | 7,15 |
| | 0.6025 | EN-GJL-250 | EN-JL-1040 | 250-350 | 190-230 | 7,15 |
| | 0.6030 | EN-GJL-300 | EN-JL-1050 | 300-400 | 200-240 | 7,25 |

* 30 mm test bar