

Material	Grey cast iron	
	Unalloyed	Alloyed, heat-treated
Si-percentage, %	2.1 - 2.4	1.8 - 2.1
Density, g/cm <sup>3</sup>	7.3	7.3
Method	Sand casting	Sand casting
$\sigma_{zB,20\text{ °C}}$ , N/mm <sup>2</sup>	175 - 245	245 - 345
$\lambda_{20\text{ °C}}$ , W/mK	42 - 54.5	33.5 - 46
$\alpha_L^{\text{a)}$ , 10 <sup>-6</sup> /K	11 - 12	11 - 12
$E_{250\text{ °C}}$ , N/mm <sup>2</sup>	88100 - 117700	107900 - 137300

a) Average linear thermal expansion at temperatures ranging from 20 °C - 200 °C