

Metal / Sphaerocasting and SiMo

For the comparison of the mechanical characteristics of our most used alloys we developed this overview. The data are valid for separated casted test bars. The material properties „in the cast part “can deviate partially substantially from those of the probes. We cast more than the further alloys. Please contact us, if the alloy needed by you is not in this overview.

Material Name old DIN 1693	Material Name DIN-EN 1563	Casting Process	Tensile Strength (RmN/mm ²) Dep. on wall thickness	Elastic Limit (Rp 0,2 N/mm ²)	Elongation (%)	Hardness HB 30
GGG-40	EN-GJS 400/15	Sandcasting	400 – 550	250 – 350	27 – 15	135 - 185
GGG-50	EN-GJS 500/7	Sandcasting	500 – 650	320 – 420	18 – 7	170 - 220
GGG-60	EN-GJS 600/3	Sandcasting	600 – 750	370 – 480	8 – 3	200 - 250
GGG SiMo 3.1	EN-GJS-XSiMo 3.1	Sandcasting	450 – 520	350 – 380	9 – 6	170 - 230
GGG SiMo 4.05	EN-GJS-XSiMo 4.05	Sandcasting	480 – 550	390 – 420	8 – 5	200 - 250
GGG SiMo 5.1	EN-GJS-XSiMo 5.1	Sandcasting	480 – 550	450 – 480	5 – 3	200 – 250