

	Cast iron		Aluminium	
	Lamellar graphite	Vermicular graphite	Hypo eutectic	Hyper eutectic
Contraction	GJL-250	GJV-400	AlSi9Cu3	AlSi17Cu4Mg
Norm	EN 1561	VDG-Merkblatt W 50	EN 1706	–
Carbon C in %	3.0 – 3.5	3.4 – 3.9	–	–
Silicon Si in %	1.8 – 2.7	1.9 – 2.35	8.0 – 11.0	16.0 – 18.0
Copper Cu in %	< 0.8	0.7 – 1.0	2.0 – 3.5	4.0 – 5.0
Magnesium Mg in %	–	–	0.05 – 0.55	0.5 – 0.6
Chromium Cr in %	0.15 – 0.45	–	0.15	–
Manganese Mn in %	0.3 – 1.0	0.25 – 0.6	0.1 – 0.5	0.15 – 0.2
Tens.strength in N/mm ²	250 – 350	400 – 475	240 – 310	280 – 370
Hardness (HB) in N/mm ²	195 – 235	180 – 240	80 – 120	140 – 160
Cylinder liner coating	none		Galvanic. Plasma spraying. bushings inserted or casted in	none
Piston coating	Graphite		Galvanic or printed iron	