

Material Range

Lamellar Graphite Cast Iron (Grey Cast Iron) in Compliance with DIN Standards

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
GG-20 EN-GJL-200	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	
GG-25 EN-GJL-250	5	10		250	200	275	840
	10	20		225	180	255	
	20	40	210	195	160	235	
	40	80*	190	170	145	215	
GG-30 EN-GJL-300	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
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