



# Siempelkamp

Giesserei

## Mechanical properties of gray cast iron

as specified in the appropriate standard as data for the design engineer.  
Tensile strength of gray cast iron (according to DIN EN 1561 Aug. 1997)

previous grade of material according to DIN 1691		grade of material according to EN 1561		defining wall thickness		tensile strength R <sub>m</sub> required values		tensile strength R <sub>m</sub> expected values in the casting
material code	number	material code	number	over inch	up to inch	in seperatly cast test pieces psi	in cast-on test pieces psi min.	psi min.
<b>GG-10</b>	<b>0.6010</b>	<b>EN-GJL-100</b>	<b>EN-JL1010</b>	0.2	1.6	<b>14,504</b> to 29,008	–	–
<b>GG-15</b>	<b>0.6015</b>	<b>EN-GJL-150</b>	<b>EN-JL1020</b>	0.1	0.2	<b>21,756</b> to 36,259	–	26,107
				0.2	0.4		–	22,481
				0.4	0.8		–	18,855
				0.8	1.6		17,405	15,954
				1.6	3.15		15,954	13,779
				3.15	5.9		14,504	11,603
<b>GG-20</b>	<b>0.6020</b>	<b>EN-GJL-200</b>	<b>EN-JL1030</b>	5.9	11.8	<b>29,008</b> to 43,511	13,053	–
				0.1	0.2		–	33,359
				0.2	0.4		–	29,733
				0.4	0.8		–	26,107
				0.8	1.6		24,656	22,481
				1.6	3.15		21,756	18,855
<b>GG-25</b>	<b>0.6025</b>	<b>EN-GJL-250</b>	<b>EN-JL1040</b>	3.15	5.9	<b>36,259</b> to 50,763	20,305	16,679
				5.9	11.8		18,855	–
				0.2	0.4		–	36,259
				0.4	0.8		–	32,633
				0.8	1.6		30,458	28,282
				1.6	3.15		27,557	24,656
<b>GG-30</b>	<b>0.6030</b>	<b>EN-GJL-300</b>	<b>EN-JL1050</b>	3.15	5.9	<b>43,511</b> to 58,015	24,656	22,481
				5.9	11.8		23,206	–
				0.4	0.8		–	39,160
				0.8	1.6		36,259	34,809
				1.6	3.15		31,908	30,458
<b>GG-35</b>	<b>0.6035</b>	<b>EN-GJL-350</b>	<b>EN-JL1060</b>	3.15	5.9	<b>50,763</b> to 65,267	30,458	28,282
				5.9	11.8		27,557	–
				0.4	0.8		–	45,687
				0.8	1.6		42,061	40,611
				1.6	3.15		37,710	36,259
				3.15	5.9		33,359	32,633
				5.9	11.8		30,458	–