



# Siempelkamp

Giesserei

## Mechanical properties measured on test pieces,

machined from cast-on samples  
(according to DIN EN 1563 Oct. 2005).

previous grade of material according to DIN 1693-2		grade of material according to EN 1563		defining wall thickness t	tensile strength R <sub>m</sub>	0,2%-yield strength R <sub>p0,2</sub>	elongation A
material code	number	material code	number	inch	psi min.	psi min.	% min.
GGG-35.3	0.7033	EN-GJS-350-22U-LT	EN-JS1019	t ≤ 1.2	50,763	31,908	22
				1.2 < t ≤ 2.4	47,862	30,457	18
				2.4 < t ≤ 7.9	46,412	29,007	15
-	-	EN-GJS-350-22U-RT	EN-JS1029	t ≤ 1.2	50,763	31,908	22
				1.2 < t ≤ 2.4	47,862	31,908	18
				2.4 < t ≤ 7.9	46,412	30,457	15
-	-	EN-GJS-350-22U	EN-JS1032	t ≤ 1.2	50,763	31,908	22
				1.2 < t ≤ 2.4	47,862	31,908	18
				2.4 < t ≤ 7.9	46,412	30,457	15
GGG-40.3	0.7043	EN-GJS-400-18U-LT	EN-JS1049	t ≤ 1.2	58,015	34,809	18
				1.2 < t ≤ 2.4	56,564	33,358	15
				2.4 < t ≤ 7.9	53,663	31,908	12
-	-	EN-GJS-400-18U-RT	EN-JS1059	t ≤ 1.2	58,015	36,259	18
				1.2 < t ≤ 2.4	56,564	36,259	15
				2.4 < t ≤ 7.9	53,663	34,809	12
-	-	EN-GJS-400-18U	EN-JS1062	t ≤ 1.2	58,015	36,259	18
				1.2 < t ≤ 2.4	56,564	36,259	15
				2.4 < t ≤ 7.9	53,663	34,809	12
GGG-40	0.7040	EN-GJS-400-15U	EN-JS1072	t ≤ 1.2	58,015	36,259	15
				1.2 < t ≤ 2.4	56,564	36,259	14
				2.4 < t ≤ 7.9	53,663	34,809	11
-	-	EN-GJS-450-10U	EN-JS1132	t ≤ 1.2	65,266	44,962	10
				1.2 < t ≤ 2.4	has to be agreed between manufacturer and customer		
				2.4 < t ≤ 7.9	has to be agreed between manufacturer and customer		
GGG-50	0.7050	EN-GJS-500-7U	EN-JS1082	t ≤ 1.2	72,518	46,412	7
				1.2 < t ≤ 2.4	65,266	43,511	7
				2.4 < t ≤ 7.9	60,915	42,061	5
GGG-60	0.7060	EN-GJS-600-3U	EN-JS1092	t ≤ 1.2	87,022	53,664	3
				1.2 < t ≤ 2.4	87,022	52,214	2
				2.4 < t ≤ 7.9	79,770	49,313	1
GGG-70	0.7070	EN-GJS-700-2U	EN-JS1102	t ≤ 1.2	101,526	60,916	2
				1.2 < t ≤ 2.4	101,526	58,015	2
				2.4 < t ≤ 7.9	95,724	55,113	1
-	-	EN-GJS-800-2U	EN-JS1112	t ≤ 1.2	116,030	69,618	2
				1.2 < t ≤ 2.4	has to be agreed between manufacturer and customer		
				2.4 < t ≤ 7.9	has to be agreed between manufacturer and customer		
-	-	EN-GJS-900-2U	EN-JS1122	t ≤ 1.2	130,533	87,023	2
				1.2 < t ≤ 2.4	has to be agreed between manufacturer and customer		
				2.4 < t ≤ 7.9	has to be agreed between manufacturer and customer		

The mechanical properties of test pieces machined from cast-on samples may not reflect exactly the properties of the casting itself, but may be a better approximation than those obtained from a separately cast sample.