

Grey iron

EN 1561 according:		DIN 1691	ASTM A48	ČSN	*mechanical properties according EN 1561			
Strength (min)	Hardness (max)				Rm [MPa] min.	Rp0,1 [MPa] informative	A [%] informative	Hardness [HBW]
EN-GJL-150	EN-GJL-HB175	GG-15	Class 25	42 2415	150	100-165	0,3-0,8	115-175
EN-GJL-200	EN-GJL-HB195	GG-20	Class 30	42 2420	200	130-195	0,3-0,8	135-195
EN-GJL-250	EN-GJL-HB215	GG-25	Class 40	42 2425	250	165-230	0,3-0,8	155-215
EN-GJL-300	EN-GJL-HB235	GG-30	Class 45,50	42 2430	300	195-260	0,3-0,8	175-235
EN-GJL-350	EN-GJL-HB255	GG-35	Class 55,60	42 2435	350	230-280	0,3-0,8	195-255

*Values valid for relevant wall thickness of the casting sample max. 50 mm

Ductile iron

EN 1563	DIN 1693	ASTM A48	ČSN	*mechanical properties according EN 1563				
				Rm [MPa] min.	Rp0,2 [MPa] min.	A [%] min.	Hardness [HBW]	KV
EN-GJS-350-22-LT	GGG-35.3	Gr. 60-35-22	-	350	220	22	max. 160	12 J at -40 °C
EN-GJS-400-15	GGG-40	-	42 2304	400	250	15	130-180	-
EN-GJS-400-18	-	-	-	400	250	18	130-175	-
EN-GJS-400-18LT	GGG-40.3	-	42 2314	400	240	18	130-175	12 J at -20 °C
EN-GJS-400-18RT	-	-	-	400	250	18	130-175	14 J at +23 °C
EN-GJS-500-7	GGG-50	Gr. 70-50-05	42 2305	500	320	7	170-230	-
EN-GJS-600-3	GGG-60	Gr. 80-60-03	42 2306	600	370	3	190-270	-
EN-GJS-700-2	GGG-70	Gr. 100-70-03	42 2307	700	420	2	225-305	-

*Values valid for relevant wall thickness of the casting sample max. 30 mm

Alloyed cast iron

Group	designation	content of main alloying elements			mechanical properties			
		C	Cr	Ni	Hardness [HBW]	Rm [MPa] min.	Rp0,2 [MPa] min.	A [%] min.
High chromium	Cr23	1,8-3,6	23,0-30,0	max. 2,0	min. 555	-	-	-
	Cr27	2,7-3,2	26,0-28,0	max. 2,0	min. 555	-	-	-
Nihard	Ni-Hard 1	2,8-3,6	1,4-4,0	3,0-5,0	min. 550	-	-	-
Ni-Resist	EN-GJSA-XNi22	max. 3,0	max. 0,50	21,0-24,0	130-170	370	170	20