

Iron grades

Suomivalimo casts typical grades of gray and spheroidal graphite cast irons.

We also provide new generation solution strengthened ferritic cast iron grades as well as tough and wear-resistant ADI-grades.

Material designation elasticity	Tensile strength Rm [N/mm ²] min.	0.2% proof strength Rp0.2 [N/mm ²] min.	Elongation A [%] min.	Brinell hardness range HBW	Modulus of E [kN/mm ²] (typical values)
Gray Cast Iron (EN 1561)					
EN-GJL-200	200	130...195 (Rp0.1)	0.8...0.3	~ 150 ... ~ 225	88...113
EN-GJL-250	250	165...228 (Rp0.1)	0.8...0.3	~ 175 ... ~ 255	103...118
EN-GJL-300	300	195...260 (Rp0.1)	0.8...0.3	~ 180 ... ~ 275	108...137
Spheroidal Graphite Cast Iron (EN 1563)					
EN-GJS-400-18LT	400	240	18	~ 130 ... ~ 175	169
EN-GJS-400-15	400	250	15	~ 135 ... ~ 180	169
EN-GJS-450-10	450	310	10	~ 160 ... ~ 210	169
EN-GJS-500-7	500	320	7	~ 170 ... ~ 230	169
EN-GJS-600-3	600	370	3	~ 190 ... ~ 270	174
EN-GJS-700-2	700	420	2	~ 225 ... ~ 305	176
EN-GJS-800-2	800	480	2	~ 245 ... ~ 335	176
Solution Strengthened Ferritic Spheroidal Graphite Cast Iron SSF (EN 1563)					
EN-GJS-500-14	500	400	14	~ 185 ... ~ 215	170
EN-GJS-600-10	600	470	10	~ 200 ... ~ 230	170
Ausferritic Spheroidal Graphite Cast Iron ADI (EN 1564)					
EN-GJS-800-8	800	500	8	~ 260 ... ~ 320	163...170
EN-GJS-1050-6	1050	700	6	~ 300 ... ~ 360	160...168
EN-GJS-1200-2	1200	850	2	~ 340 ... ~ 440	158...167
EN-GJS-1400-1	1400	1100	1	~ 380 ... ~ 480	156...165

* The given values relate to a separately cast test bar. Material density for all grades is ~ 7.0 ... ~ 7.3 g/cm³.