

SG DUCTILE IRON

CAPACITY
4 TONNES

STANDARDS

N/mm ² BS 1452:1990	Tons/in ² BS 1452:1961 (Superceded)	Hardness	Material Properties
900/2	47/2	302-359 BHN	High strength, low ductility, hard
800/2, 700/2, 600/3*	37/2	190-350 BHN	High strength, low ductility
500/7*, 450/10	32/7	160-240 BHN	Strength with reasonable ductility
420/12*, 400/15	27/12	212 Max BHN	Strength with reasonable ductility
400/18, 350/22	24/17	180 Max BHN	High resistance to impact

COMPARISONS

European Material Numbers EN 1563:1997	Tons/in ² / % Elongation (Superceded)	N/mm ² / % Elongation BS2789:1985 (Superceded)	Descriptive Symbols Prefix EN-GJS L = Low Temp. R = Room Temp.
EN-JS-1010, EN-JS-1014, EN-JS-1015		350/22, 350/22L	350/22, 350/22-LT, 350/22-RT
EN-JS-1020, EN-JS-1024, EN-JS-1025	SG 24/17	400/18, 400/18L	400/18, 400/18-LT, 400/18-RT
EN-JS-1030, EN-JS-1040	SG 27/12	400/12	400/15, 450/10
EN-JS-1050	SG 32/7	500/7	500/7
EN-JS-1060	SG 37/2	600/3	600/3
EN-JS-1070, EN-JS-1080, EN-JS-1090	SG 47/2	700/2, 800/2, 900/2	700/2, 800/2, 900/2

Description of Modulus:

First number is the tensile strength, the second after the backslash is the percentage elongation before fracture.

HARDNESS

Hardness Range (BHN)	Material Number EN 1563:1997
>160	EN-JS-2010
130-175	EN-JS-2020
135-180	EN-JS-2030
160-210	EN-JS-2040
170-230	EN-JS-2050
190-270	EN-JS-2060
225-305	EN-JS-2070
245-335	EN-JS-2080
270-360	EN-JS-2090