



VANGUARD FOUNDRY

manufacturers of high integrity ductile castings

MATERIAL SPECIFICATIONS

EN 1563 1997 Ductile Iron Specifications

Mechanical properties as measured on separately cast test bars

Material Designation		Tensile Strength N/mm ² Minimum	0.2% Proof Stress N/mm ² Minimum	Elongation %
Symbol	Number			
EN GJS 350-22	EN JS1010	350	220	22
EN GJS 350-22LT	EN JS1015	350	220	22
EN GJS 400-18	EN JS1020	400	250	18
EN GJS 400-18 LT	EN JS1025	400	240	18
EN GJS 400-15	EN JS1030	400	250	15
EN GJS 450-10	EN JS1040	450	310	10
EN GJS 500-7	EN JS1050	500	320	7
EN GJS 600-3	EN JS1060	600	370	3
EN GJS 700-2	EN JS1070	700	420	2
EN GJS 800-2	EN JS1080	800	480	2
EN GJS 900-2	EN JS1090	900	600	2

Notes

LT = Low Temperature

1 N/mm² = 1 Mpa

Many customers ask for castings to be produced to their own material specification and Vanguard has the flexibility to cope with this demand.

For other customers, Vanguard produce castings that meet International standards.

The specification for ductile iron to EN 1563 1997 is shown opposite with equivalent international standards in a separate table.

International Specifications Equivalent to EN 1563:1997

Mechanical properties as measured on separately cast test bars

Material Designation EN 1563		UK BS 2789 1985	Germany DIN 1693 1973	Netherlands NEN 6002-D 1966	Italy UNI 4544 1979	Sweden SS1407 1981	USA ASTM A536 1993	International ISO1083 1987
Symbol	Number							
EN GJS 350-22	EN JS1010	350-22						350-22
EN GJS 350-22LT	EN JS1015	350-22L40	GGG35.3	GN38	GS370-17	17-15		350-22L
EN GJS 400-18	EN JS1020	400-18		GN42			60-40-18	400-18
EN GJS 400-18 LT	EN JS1025	100-18L20	GGG40.3			17-02		400-18L
EN GJS 400-15	EN JS1030	420-12	GGG40		GS400-12	17-00	65-45-12	400-15
EN GJS 450-10	EN JS1040	450-10					70-50-05	450-10
EN GJS 500-7	EN JS1050	500-7	GGG50	GN50	GS500-7	27-02	80-55-06	500-7
EN GJS 600-3	EN JS1060	600-3	GGG60	GN60	GS600-3	32-03	100-70-03	600-3
EN GJS 700-2	EN JS1070	700-2	GGG70	GN70	GS700-2	37-01		700-2
EN GJS 800-2	EN JS1080	800-2	GGG80	GN80	GS800-2		120-90-02	800-2
EN GJS 900-2	EN JS1090	900-2						900-2

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