

VISHWAS OVERSEAS™

CASTING GRADES

Country	Standard	Equivalent Grades of Ductile iron (SG Iron, Nodular Graphite Iron)						
ISO	ISO 1083	400-15	450-10	500-7	600-3	700-2	800-2	900-2
		400-18						
China	GB 1348	QT400-18	QT450-10	QT500-7	QT600-3	QT700-2	QT800-2	QT900-2
USA	ASTM A536	60-40-18	60-42-10	70-50-05	80-55-06	100-70-03	120-90-02	—
			65-45-12		80-60-03			
Germany	DIN 1693	GGG40	—	GGG50	GGG60	GGG70	GGG80	—
Austria								
European	EN 1563	EN-GJS-400-15	EN-GJS-450-10	EN-GJS-500-7	EN-GJS-600-3	EN-GJS-700-2	EN-GJS-800-2	EN-GJS-900-2
		EN-GJS-400-18						
Japan	JIS G5502	FCD400	FCD450	FCD500	FCD600	FCD700	FCD800	—
Italy	UNI 4544	GS370-17	GS400-12	GS500-7	GS600-2	GS700-2	GS800-2	—
France	NF A32-201	FGS370-17	FGS400-12	FGS500-7	FGS600-2	FGS700-2	FGS800-2	—
UK	BS 2789	400/17	420/12	500/7	600/7	700/2	800/2	900/2
India	IS 1865	SG370/17	SG400/12	SG500/7	SG600/3	SG700/2	SG800/2	—
Spain	UNF	FGE38-17	FGE42-12	FGE50-7	FGE60-2	FGE70-2	FGE80-2	—
Belgium	NBN 830-02	FNG38-17	FNG42-12	FNG50-7	FNG60-2	FNG70-2	FNG80-2	—
Australia	AS 1831	300-17	—	500-7	600-3	700-2	800-2	—
		400-12						
Sweden	SS 14 07	0717-02	—	0727-02	0732-03	0737-01	0864-03	—
Norway	NS11 301	SJK-400.3	—	SJK-500	SJK-600	SJK-700	SJK-800	

Country	Standard	Equivalent Grades of Gray Iron (Grey Cast Iron)						
ISO	ISO 185	100	150	200	250	300	350	—
China	GB 9439	HT100	HT150	HT200	HT250	HT300	HT350	—
USA	ASTM A48	—	NO.20	NO.30	NO.35	NO.40	NO.50	NO.55
			NO.25			NO.45		NO.60
Germany	DIN 1691	GG10	GG15	GG20	GG25	GG30	GG35	GG40
Austria								
European	EN 1561	EN-GJL-100	EN-GJL-150	EN-GJL-200	EN-GJL-250	EN-GJL-300	EN-GJL-350	
Japan	JIS G5501	FC100	FC150	FC200	FC250	FC300	FC350	—
Italy	UNI 5007	G10	G15	G20	G25	G30	G35	—
France	NF A32-101	—	FGL150	FGL200	FGL250	FGL300	FGL350	FGL400
UK	BS 1452	100	150	200	250	300	350	—
India	IS 210	—	FG150	FG200	FG260	FG300	FG350	FG400
Spain	UNF	—	FG15	FG20	FG25	FG30	FG35	—
Belgium	NBN 830-01	FGG10	FGG15	FGG20	FGG25	FGG30	FGG35	FGG40
Australia	AS 1830	—	T150	T220	T260	T300	T350	T400
Sweden	SS 14 01	O110	O115	O120	O125	O130	O135	O140
Norway	NS11 100	SJG100	SJG150	SJG200	SJG250	SJG300	SJG350	—

Material Grade	Tensile Strength (min)N/mm2	0.2% Proof Stress (min) N/mm2	Elongation	Minimum Impact Resistance Values (in Joule), See note A						Predominant Structure
				At room temperature (23 +/-5) degrees C		At (-20 +/- 2) degrees C		At (-40 +/- 2) degrees C		
				Mean Value from 03 tests	Individual Value	Mean Value from 03 tests	Individual Value	Mean Value from 03 tests	Individual Value	
EN-GJS-350-22-LT	350	220	22	-	—	-	—	12	9	Ferrite
EN-GJS-350-22-RT	350	220	22	17	14	-	—	—	—	Ferrite
EN-GJS-350-22	350	220	22	—	—	-	—	—	—	Ferrite
EN-GJS-400-18-LT	400	240	18	-	—	12	9	—	—	Ferrite
EN-GJS-400-18-RT	400	250	18	14	11	-	—	-	-	Ferrite
EN-GJS-400-18	400	250	18	-	-	-	-	-	-	Ferrite
EN-GJS-400-15	400	250	15	-	—	-	-	-	-	Ferrite
EN-GJS-450-10	450	310	10	-	-	-	-	-	-	Ferrite
EN-GJS-500-7	500	320	7	-	—	-	-	-	-	Ferrite
EN-GJS-600-3	600	370	3	-	—	-	-	-	-	Pearlte - Ferrite
EN-GIS-700-2	700	420	2	-	—	-	—	—	-	Pearlte - Ferrite
EN-GIS-800-2	800	480	2	-	—	-	-	-	-	Pearlite
EN-GIS-900-2	900	600	2							Pearlite or Tempered Martensite