DUCTILE IRON/SPHEROIDAL GRAPHITE IRON MATERIAL GRADES

Country	Standard		Comparison – Equivalent Grades of Grey Iron (Grey Cast Iron)										
ISO(2004)	ISO 185/JL/	100	150	200	225	225	275	300	300	-			
Australia(2007)	AS 1830	100	150	200	225	250	275	300	350	400			
USA*	ASTM A48a		150(NO.20/25)	200(NO. 30)		250(NO.35)		300(NO.45)	350(NO.50)	400(NC 55/60)			
	ASTM A126a	-	CLASS A	CLASS B				CLASS C					
Germany Austria	DIN 1691	GG10	GG15	GG20		GG25		GG30	GG35	GG40			
European	EN 1561	EN-GL- 100	EN-GJL-150	EN-GJL- 200/225		EN-GJL- 250		EN-GL-300	EN-GL-300				
China	GB 9439	HT100	HT150	HT200		HT250		HT300	HT350	-			
Japan	JIS G5501	FC100	FC150	FC200		FC250		FC300	FC350	-			
Italy	UNI 5007	G10	G15	G15		G25		G30	G35	-			
France	NG A32- 101	-	FGL150	FGL200		FGL250		FGL300	FGL350	FGL400			
UKb	BS 1452a	100	150	200		250		300	350				
India	IS 210	-	FG150	FG200		FG260		FG300	FG350	FG400			
Spain	UNF		FG15	FG200		FG25		FG30	FG35	-			
Belgium	NBN 830- 01	FGG10	FGG15	FGG20		FGG25		FGG30	FGG35	FGG40			
Sweden	SS 14 O1	0110	O115	0120		O125		0130	O135	0140			
Norway	N11 100	SJG100	SJG150	SJG200		SJG250		SJG300	SJG350	-			
SAEc	J431a	J431a -			G12H21	G11H18	G12H21	G13H22					
			G9H12	G10H18			G13H19		G13H24	-			

S.G IRON MATERIAL GRADES

Country	Standard		Comp	arison - Equiv	alent Grade	s of Ductil	e Iron (SG Iron	Nodular Grapi	nite Iron)	
ISO	ISO 1083/JS/	400- 15/S	400-18/S	450-10/S	500-7S	500- 10/S	600-3/S	700-2/S	800-2/S	900-2/
Australia(2007)	AS 1831	400-15	400-18	450-10	500-7		600-3	700-2	800-2	900-2
	ASTM A395		60-40- 18	200(NO. 30)				300(NO.45)	350(NO.50)	
USA*	ASTM A536			60-42- 10/65-45- 12	70-50- 05		80-60- 03/80-55- 06	100-70-03	120-90-02	-
Germany Austria	DIN 1693	GG	G40	-	GGG50		GGG60	GGG70	GGG80	-
European	EN 1563	EN-GJS- 400-15	EN-GJS- 400-18	EN-GJS- 450-10	EN-GJS- 500-7		EN-GJS- 600-3	EN-GJS- 700-2	EN-GJS- 800-2	EN-GJS 900-2
China	GB 1348		QT400- 18	QT450-10	QT500-7		QT600-3	QT700-2	QT800-2	QT900 2
Japan	JIS G5502	FCE	0400	FCD450	FCD500		FCD600	FCD700	FCD800	
Italy	UNI 4544	GS370-17		GS400-12	GS500-7		GS600-2	G\$700-2	G\$800-2	-
France	NF A32-201	FGS370-17		FGS400-12	FGS500- 7		FGS600-2	FG\$700-2	FGS800-2	-
UK	BS 2789d	400/17		400/12	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	122
Spain	UNF	FGE	38-17	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	-
Sweden	SS 14 07	0717-02		-	0727-02	SS 140725	0732-03	0737-01	0864-03	-
Norway	NS11 301	SJK-400.3	3 / SJK-400	-	SJK-500		SJK-600	SJK-700	SJK-800	-

AUSTEMPERED DUCTILE IRON MATERIAL GRADES

Material Symbol	Number	Tensile Strength N/mm2 (min)	0.2% Proof Stress N/mm2 (min)	Elongation % (min	
EN-GJS-800-8	EN-JS1100	800	500	8	
EN-GJS-1000-5	EN-JS1110	1000	700	5	
EN-GJS-1200-2	EN-JS1120	1200	850	2	
EN-GJS-1400-1	EN-JS1130	1400	1100	1	