



THE ALLIED FOUNDERS PVT. LTD.

An ISO 9001:2015 certified Company, Manufacturers & Exporters of Cast Iron Castings, Ductile Iron Castings, Machined Components & Assemblies

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INTERNATIONAL SPECIFICATIONS FOR GREY IRON STANDARDS

COUNTRY	SPECIFICATION	DESIGNATION									
India	IS 210 1978	FG	150	--	200	--	250	--	300	350	
United Kingdom	BS 1452 1990	Grade	150	180	200	220	250	--	300	350	
USA	ANS/ASTM A48-83	CLASS	20A	25A	30A	--	35A	40A	45A	50A	
DIN	DIN EN 1561	EN-GJL	150	--	200	--	250	--	300	350	
Germany	DIN 1691 1985	GG	15	--	20	--	25	--	30	35	
France	NFA 32-101-1987	FGL	150	--	200	--	250	--	300	350	
Italy	UNI 5007 1969	G	15	--	20	--	25	--	30	35	
Japan	JIS G5501 1981	FC	150	--	200	--	250	--	300	250	
Russia	GOST 1412 1979	Sch	15	18	20	--	25	--	30	35	
International	ISO 185-1988	Grade	150	--	200	--	250	--	300	350	
		CLASS	2	--	3	--	4	--	5	6	
Tensile strength MPA			150 MIN		207 Min		242 Min		350 Min		350 Min
Hardness range BHN			136-167		159-194		180-222		202-247		227-278
Total carbon %			3.4-3.6		3.2-3.5		3.15-3.30		2.9-3.1		3.1 max
silicon %			2.2-2.5		2.0-2.5		1.6-1.9		1.8-2.0		1.4-1.6
Manganese %			0.5-0.7		0.6-0.8		0.6-0.8		0.7-0.9		0.7-0.9
Sulphur %			0,15		0,15		0.12 max		0.10 max		0.10 max
Phosphorous %			0.9-1.2		0.4 max		0.3 max		0.10 max		0.10 max
Molybdenum %			--		--		--		--		0.3-0.5
Cu or Ni %			--		--		--		0.3-0.5		1.0-1.5

NOTE: The above standards for ordering reference only the customer can specify any special requirement. All specifications are subject to change without prior notice.

