



**Mfg.: S.G. Iron Casting & Grey Iron
Casting As Per IS & ASTM Standards**

Automobile
Power Transmission
Agriculture Equipment
Defense
Earthmoving
Railways
Machine Tools
Wind energy
Valves industry
Oil & Petrochemicals

www.rudrakshtechnocast.com

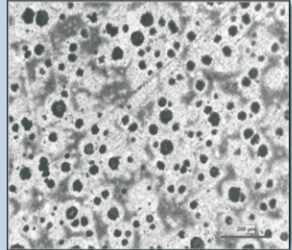
About Ductile Iron

- 📖 Nodular iron or Spherical. We take away as much S as possible and inoculate with a Mg alloy. This causes graphite to form in spherical clumps instead of flakes. This has a tremendous effect on mechanical properties.
- 📖 Yield: 276 MPA, 40 Ksi
- 📖 Ultimate: 414 MPA, 60 Ksi
- 📖 Ductile: 18% EL

Please note : Elements such as copper or tin may be added to increase tensile and yield strength while simultaneously reducing ductility. Improved corrosion resistance can be achieved by replacing 15% to 30% of the iron in the alloy with varying amounts of nickel, copper, or chromium

- 📖 This is very important – has steel like properties in a casting

Ductile iron microstructure at 100x.



Types of Sand Process

▼ GREEN SAND PROCESS



▼ CO2 PROCESS



▼ MOLASSE MOLDING PROCESS

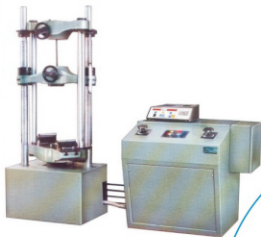


▼ NO BACK PROCESS



TESTING FACILITIES

- ▶ **Spectrometer** : High Performance Metals Analysis With Latest Technology.
- ▶ **Computerised Universal Testing Machine 40 KN Capacity With Electronic Extensometer.**
- ▶ **Microscope** : Inverted Metallurgical Microscope With Image Analyzer & Analyze Stream Software.
- ▶ **Hardness Testing** : Optical Brinell & Rockwell Hardness Tester.
- ▶ **C. Meter** : Carbon Silicon Analyzer Tester for molten metal.
- ▶ **Sand Testing Equipments** : All Type of Electrical, Mechanical & Digital Testing.
(Permeability - Compatibility - Universal Strength - Hardness - Tensile)
- ▶ **Other Testing Facility** : Ultrasonic - Radiography - Magnetic Particle - Eddy Current - Hydro Test.
(This Facility Are Carried Out at NABL Approved Third Party Laboratory.)



MACHINERY

☞ Induction Furnace (Electro Therm)

☞ Intensive Mixer:

☞ Hoist:

☞ Hand Molding Press:

☞ Jolter Molding Machine:

☞ Manual Mix-Muller:

▼ INTENSIVE SAND MIXER



▼ INDUCTION FURNACE



▼ COLD BOX CORE SHOOTER



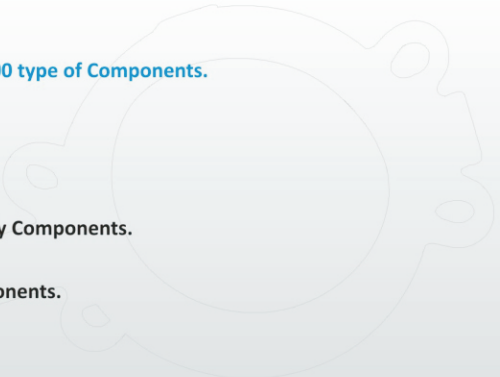
▼ PNEUMATIC PRESS WITH SAND STORAGE



PRODUCTS MANUFACTURED

All together we had developed about 300 type of Components.
Which constitute...

- ☞ Transmission Components.
- ☞ Engine Components.
- ☞ Valves Components.
- ☞ Universal Joint / Propeller Assembly Components.
- ☞ Earth Moving Components.
- ☞ Machine Tools and Electrical Components.
- ☞ Flanges , Gears and Engine blocks.
- ☞ Axle Components.
- ☞ General Engineering components.



Products

Automobile



Agriculture



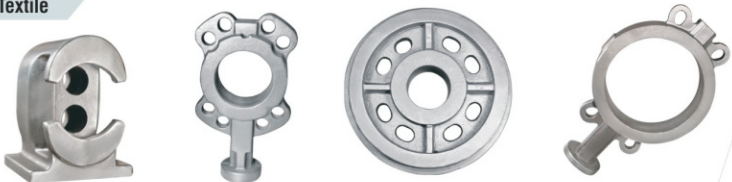
General Engineering



Power Transmission



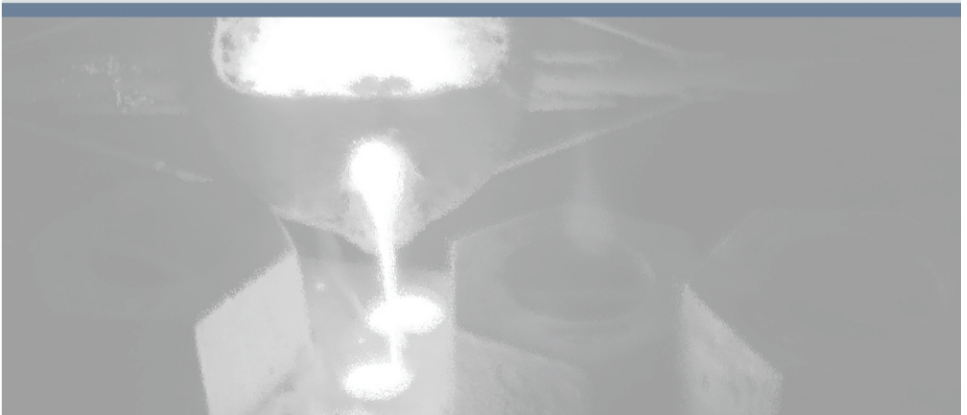
Chemical & Textile



SG IRON Specification

- ☞ ISO 1083,
- ☞ AMERICAN - ASTM A536,
- ☞ EUROPEAN - EN 1563,
- ☞ GERMAN - DIN 1693

Material Designation with ISO	Tensile Strength (min)N/mm ²	0.2% Proof Stress (min) N/mm ²	Elongation (min)%	Predominant Structure
350-22-LT	350	220	22	Ferrite
350-22-RT	350	220	22	Ferrite
350-22	350	220	22	Ferrite
400-18-LT	400	240	18	Ferrite
400-18-RT	400	250	18	Ferrite
400-18	400	250	18	Ferrite
400-15	400	250	15	Ferrite
400-10	450	310	10	Ferrite
500-7	500	320	7	Ferrite - Pearlite
600-3	600	370	3	Pearlite - Ferrite
700-2	700	420	2	Pearlite
800-2	800	480	2	Pearlite
900-2	900	600	2	Pearlite or Tempered Martensite





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TECHNOCAST PVT. LTD.



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