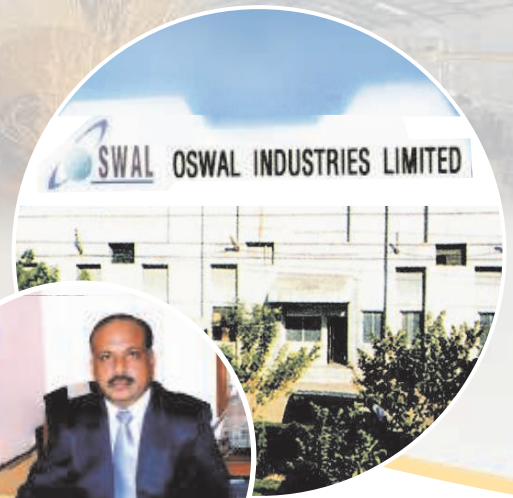


*Where each castings
is made like a work
of an art*



Company Profile

Oswal's Foundry division was founded in the year 1985 to primarily make castings for the Valve Industry. As a forward integration to casting manufacturing, Oswal in the year 1995 set up a machining, assembly & testing shop for manufacturing and assembly of industrial valves to cater the International & Domestic markets. Today we are one of the pioneers and leaders in manufacturing castings for the Valve industry globally. This was due to the dynamism, innovativeness and a foresighted vision of Mr. BABULAL H. BOKADIA, Chairman & Managing Director, Oswal Group



The management of Oswal is vested in a duly constituted Board of Directors, each of whom possess necessary expertise in their own fields of operation. Much of the success and growth of the company is due to consistent efforts towards Quality improvement & product development. Oswal Group consisting the Foundry and Valve division are ISO 9001 Certified and has adopted Total Quality Management System. Skilled workforce under close supervision by qualified and experienced personnel ensures quality and reliability of the castings as well as Valves. Over the years we have built Total CONFIDENCE with our clients for supply of the best Quality product meeting National and International standards in - Material, Products, Delivery & Service.



Our Vision

"Our vision is to become one of the world's largest manufacturer of industrial castings and valves for the critical and demanding needs of Oil and Gas, Refineries, Petrochemicals, Thermal and Nuclear plants by adopting appropriate quality management concepts and achieving excellence through continuous improvement with the involvement of our employees, customers and vendors."

Our Mission

Company's vision is aptly complimented by management with a mission to create value for our customers by:

- Meeting or exceeding expectation by partnering with the customer and delivering right goods/services.
- Acting professionally, responsibly and with integrity in everything we do.
- Ensuring quality health, safety and the environment in all our activities.
- Committed to promote the sustainable growth.

Total Quality Management

QUALITY ASSURANCE

Quality assurance is ensured by a written assurance program that includes following testing and inspection. Every product at our works undergoes stringent quality checkup at every stage which includes:

- Chemical - by a Optical Emission Spectro meter
- Mechanical - by Universal Testing Machine
- NDT - Radiography , Magnetic Particle Inspection, Dye Penetration
- Inspection & Ultrasonic
- MPI - for crack detection
- Impact Charpy "v" Notch Capable Of Testing Upto-196° C
- PED & AD 2000WO

TESTING FACILITIES:

Radiographic Testing

Is done in house by approved agencies and qualified technicians as per relevant standards. Required facilities as dark room. Iridium source RGT room etc. is available.

Dye Penetrant Testing

Is done in house by qualified technicians and as per relevant standards.

Chemical Testing

chemical analysis is done using a optical emission spectrometer of spectromax, germany make capable of analyzing 32 elements including nitrogen.



Mechanical Testing

Tensile testing is done using a 40 tons capacity universal tensile testing machine. Facility for Charpy "v" notch capable of testing upto -196°C available in house.

Hardness Testing

Hardness testing is done in house using state of the art testing machine.

Radiography

Facility for conducting radiography using iridium 192 source like radiography shooting pit, dark room, evaluation room, reference scrat (e446) is available in house. Shooting and evolution of the radiography films is done by approved and qualified Asnt level - II technicians as per relevant standards in house.

Magnetic Particle Inspection

A 1500 amps prod type magnetic particle inspection machine using wet method for inspection of the casting and evolution of magnetic particle inspection is done by approved and qualified Asnt level - II technicians as per relevant standards in house.

Dye Penetrant Inspection

Solvent soluble penetrant, developer is used for examination of the casting and evaluation of dpt is done by approved and qualified Asnt level - II technicians as per relevant standards.



Infrastructure

Facilities includes a fully equipped pattern shop for manufacturing and rigging of pattern, melting in medium frequency core less induction furnace coupled to two crucibles each of 1000 kgs. and 1500 kgs. melting capacity, mould and core making using high speed continuous sand mixers with compaction tables, surface cleaning of casting on 72" & 48 " table type shot blasting machine for carbon steel casting and manual grit blasting facility for surface cleaning of stainless steel casting with fully equipped pickling and passivation facility for surface treatment of stainless steel castings a battery of grinders for finishing with adequate material handling facilities.

Furnace Capacity : Two crucibles-1000 kgs. & 1500 kgs.

Single Casting Weight : 25 Kgs. - 1500 Kgs.

Production Capacity : 2500 mt per annum.

Pattern Manufacturing

A fully equipped pattern shop for manufacturing and rigging of pattern.



Sand Mixer

Individual high speed continuous mixer for mixing sand to both part phenolic and Co₂ process.



Moulding

Adequate material moulding facility to cater to both machine and hand moulding.



Melting

Two coreless induction crucible each of capacity 1000 kgs and 1500 kgs coupled to a medium frequency furnace.



Infrastructure

Pouring
Lip pouring & bottom pouring.



Heat Treatment
Two furnaces one gas fired and other oil fired with pid controllers for temperature controlling, each of 3tons batch capacity having facility for water quenching - water tank capacity of about 15,000 liters water and with water agitation system coupled with a closed loop cooling system to maintain uniform water temperature during quenching.



Fettling
A battery of grinders of various sizes for finishing operations.



Shot Blasting
48" & 72" table type shot blasting machine for carbon steel casting, manual grit blasting facility for stainless steel casting.



Machine Shop
Inhouse CNC, NC & manual machine shop capable to machine up to 48" valve body.

Pickling & Passivation
Tanks for pickling and passivation.



Auxillaries
In house Dg sets for electricity backup, compressors for air usage, over head cranes in all working bays & welding machines.

Product Range

Oswal's steel foundry produces castings in carbon steel, alloy steel, stainless steel, duplex, super duplex and exotic alloys (nickel based) conforming to national and international standards, NACE being our speciality. The foundry produces high end castings for the flow control industry having radiography level quality and conforming to NACE standards by default with the surface finish meeting international standards.

Oswal's foundry division offers castings in as cast / pre machined / fully machined condition and also offers components and accessories for all types of valves.

Product

Oswal's steel foundry produces high end castings for flow control industry having radiography level quality standard and incorporating NACE level by design and surface finish meeting to International standards.

Offering as cast / pre machined / fully machined castings

Also offering valve accessories / valve components.



Oswal Casting Products



Minimum Piece Weight	25 Kg/Pc.
Maximum Piece Weight	1500.0 Kg/Pc.
Dimensions	Maximum Dimensions L x B x H -2000 x 2000 x 1000 MM WITHIN 1500.0 Kg/Pc.

Exotic Alloy Casting (Nickel Base Alloys)	ASTM A 494 - CZ100, M35 -1, M25S (Monel), ASTM A 494 - CW12MW (Hastelloy C), ASTM A 494 - N - 12MV (Hastelloy B), ASTM A 494 - CY40 (Inconel), Other Nickel Alloys M35 - 2, M -30H, M - 30C, N - 7M, CW - 6M, CW - 2M, CW - 6MC, CX2MW
Duplex & Super Duplex	ASTM A 890 Gr. 1A, 2A, 3A, 4A, 5A, 6A. A 351 CK3MCuN
Stainless Steel	ASTM A 351 GR. CF 8, CF8M, CF3, CF3M, CF 8C, CN 7M, CG 3M
Carbon Steel	ASTM A 216 Gr. WCB, ASTM A 352 - LCA, LCB, LCC
Alloy Steel	ASTM A 217 GR WC1, WC6, WC9, C 5, C12, C12 A

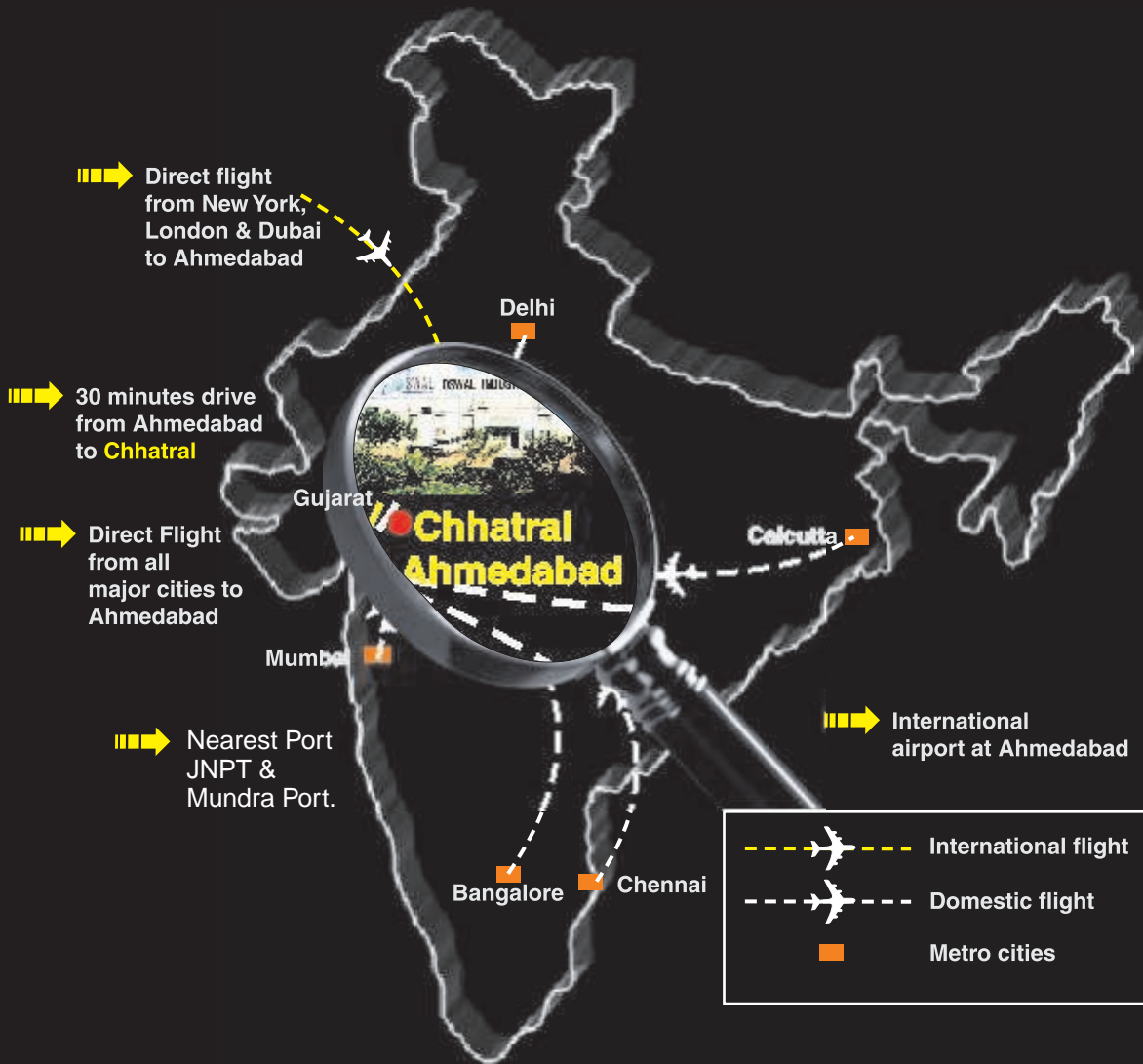
Variety of Material Specification being offered

Comparison Chart For various Grades Of Steel

Sl.No	Broad Classification	ASTM Reference	ASTM Grade	UNS Number	Material No	DIN	Common name	Symbol	3s	JIS
1	Exotic Alloys / Nickel Alloys	ASTM A 494	Grade CZ 100	N 02100	*****	*****	*****	*****	*****	*****
2			Grade M-35-1	N 24135	*****	*****	Monel	*****	*****	*****
3			Grade M-25 S	N 24025	*****	*****	Monel	*****	*****	*****
4			Grade CW 12 MWN	30002	*****	*****	Hastelloy "C"	*****	*****	*****
5			Grade N 12 MV	N 30012	2.4800 / 2.4810	17744	Hastelloy "B"	S Ni Mo 30 / Ni MO 30	*****	*****
6			Grade CY 40	N 06040	2.4816	17742;E EN 10095	*****	NiCr15Fe(NiCr5Fe8)	*****	*****
7			Grade M 35 - 2	N 04020	*****	*****	Monel	*****	*****	*****
8			Grade M 30 - H	N 24030	*****	*****	Monel	*****	*****	*****
9			Grade M 30 - C	N 24130	2.4365	17730	Monle	GNiCu30Nb	*****	*****
10			Grade N - 7M	N 30007	*****	*****	*****	*****	*****	*****
11			Grade CW - 6M	N 30107	*****	*****	*****	*****	*****	*****
12			Grade CW - 2M	N 26455	2.4610	17744	*****	NiMo16Cr16Ti	*****	*****
13			Grade CW - 6 MCN	26625	2.4856	17744 (E EN10095)	*****	NiCr22Mo9Nb	*****	*****
14			Grade CX 2MW	N 26022	2.4602	*****	*****	NiCr21Mo14W	*****	*****
15	Duplex & Super Duplex Alloys	ASTM A 890	Grade 1 A	J 93370	*****	*****	*****	*****	*****	*****
16			Grade 2 A CE8MnJ	93345	*****	*****	*****	*****	*****	*****
17			Grade 3 A CD6Mn		*****	*****	*****	*****	*****	*****
18			Grade 4 A CD3Mn	2205	1.4462	EN 10088-1,-2,3 EN 10028-7;E EN 10272	*****	XCrNiMoN22-5-3	*****	*****
19			Grade 5 A CE3Mn	-----	*****	*****	*****	*****	*****	*****
20			Grade 6 A CD3MnCun		*****	*****	*****	*****	*****	*****
21				*****	*****	*****	*****	*****	*****	
22	Precipitating Hardening	ASTM A 747	Grade Cb 7 Cu		1.4542	EN10088-1;-2;-3	17 4 Ph	X5CrNiCuNb16 - 4	*****	*****
23	Stainless Steel	ASTM A 351	Grade CF8	J 92600	1.4308	EN 10213 - 4;17445	304	GX5CrNi19 - 10	304 C 15	SCS13
24			Grade CF8M	J 92900	1.4408	EN 10213 - 4 ; 17445	316	GX5CrNiMo 19 - 11 - 2	316 C 16 (LT 196)	SCS12
25			Grade CF3	J 92500	1.4306	EN 10028-7;E En 10272	304 L	X 2CrNi 19-11	304 S11;LW 20,LWC	SCS19 SUS 304
26			Grade CF3M	J 92800	1.4404	SEW 410	316 L	GX2CrNiMoN18- 10	316 S 11	SUS316
27			Grade CF8C	J 92710	1.4552	EN 10213 - 4 ; 17445	*****	GX5CrNiNb 19 -11	347 C 17	SCS 21
28			Grade CN7M	N 08007	1.4500	*****	Alloy 20	GX7NiCrMoCuNb 25 - 20	*****	*****
29										
30	Carbon Steel	ASTM A 216	Grade WCB	J 03002	1.0619	EN 10213 - 2	*****	GP240Gh	BS 3100	*****
31			Grade WCC	J 02503	1.1120/1.0625	17182	*****	GP280Gh / GS20Mn5	BS 310	*****
32	Low Temp Steel	ASTM A 352	Grade LCB	J 03003	*****	*****	*****	*****	*****	*****
33			Grade LCC	J 02505	1.1138	EN 10213 - 3	*****	G21Mn5	*****	*****
34	High Temp Steel	ASTM A 217	Grade LC1	J 12522	*****	*****	*****	*****	*****	*****
35			Grade WC1	J 12524	*****	*****	*****	*****	*****	*****
35			Grade WCS	J 12072	1.7357	EN 10213 - 2	*****	GS 17CrMo 5.5	*****	*****

Note : This chart is for reference only. Oswal cannot be held liable for any change occurred due to the use of the tables.

How to reach us



GEOGRAPHICAL MAP OF INDIA



OSWAL INDUSTRIES LTD.

Foundry Division: Bileshwarpura, P. O. Chhatral, Tal. Kalol, Dist. Gandhinagar - 382 729, IN

Tel: (+ 91) 02764 - 226885 / 233661 / 232261 • Fax: (+91) 02764 - 233411

E-mail : sales@ oswalcasting.com

DIA.

Mumbai Off.: Kartar Mansion, 3rd flr., Tribhuvan Rd., Off. Lamington Rd., Mumbai - 400 004. INDIA.

Tel: (+ 91) 22 - 30088001 to 5 • Tel/ Fax: (+91) 22 - 23861642

E-mail:sales@ oswalcasting.com

Website:www.oswalcasting.com