



Since 1967...

As a **Gedik Holding** subsidiary, **Gedik Advanced Casting Technologies** was founded in 1967 and has divisions namely, Sand Casting and Investment Casting. The Company headquartered in Istanbul, works as an integrated company and performs all processes of casting and valve production together with **Gedik Termo Valve** company in a closed area of 25.000 m² in Sakarya.

Sand casting plant, which manufactures grey iron, ductile iron, steel, stainless steel, duplex stainless steel and bronze materials by using both automatic and automotive moulding lines (Sinto FBO and FTL) for the automotive, machinery, energy, defense, shipbuilding, pump and valve industries.

Besides standard low and high alloy carbon steels, stainless steel and copper alloyed parts up to 60 kg/piece can be cast for various industrial sectors.

The casted parts can be delivered as-cast and /or machined conditions, as per customers request and specifications.

Gedik Advanced Casting Technologies performing in compliance with national and international standards such as **Turk Loydu Approval Certificate**, IATF 16949:2016, ISO 9001:2015, ISO 14001:2015, Bureau Veritas Certificate and TUV AUSTRIA TURK LTD Certificate.



Gedik Advanced Casting Technologies provides to its customers a wide range of reliable and cost efficient solutions in cast iron, bronze, stainless steel, duplex stainless, low alloy and carbon steel casting.

Features of Cast Iron Section

- 10.000 tonnes annual capacity
- Sinto FBO3 Molding Line (500 x 600 x 250/250mm) 120 molds/hour capacity
- Sinto FBOX3 Molding Line (500 x 600 x 250/250mm) 200 molds/hour capacity
- 2x 3 tonnes melting capacity induction furnace

Features of Steel, Stainless Steel and Bronze Section

- 3.000 tonnes annual capacity
- FTL Molding Line with 6 stations (1100 x 1100 x 450/450mm)
- 2x 2 tonnes melting capacity induction furnace
- 2x 1000 kg melting capacity induction furnace







Casting Design & Analysis

- Siemens UG/NX, Solidworks **3D Drawing Softwares**
- Solidcast, NovaCast Casting Simulation Software
- Inhouse 3D FDM Printers for Wax and Prototypes Using MatterControl Software

Inhouse Test Features

- Optical Spectrometer
- Tensile Strength Test and Charpy V-Notch Tests
- Microstructural Analysis
- Hardness Test

Other Activities Heat Treatment

- Machining
- Coating
- Painting



Inhouse NDT Features

- Ultrasonic Testing
- Radioscopic Testing
- Radiographic Testing (X-Ray & Gamma Ray)
- Magnetic Particle Testing
- Liquid Penetrant Testing

Inhouse Measurement Control Features

- Carl Zeiss-Contura G2 type CMM
- Profile Projection
- Surface Roughness Measurement
- Coating Thickness Measurement



EXAMPLES OF SAND CASTING PARTS



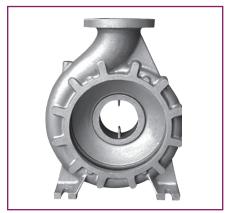
EN GJS400-18 / 15 kg



EN GJS400-15 / 11 kg



High-Cr



1.4462 / 280 kg



Duplex Stainless Steel Pump Cover / 1.4462 - 1200 kg



CuSn10 / 36 kg



CuSn10 / 14 kg



Al Bronze / 20 kg



CuSn10 / 125 kg



CuSn10 / 15-20 kg

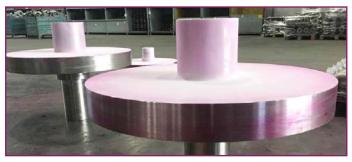


Gedik Advanced Casting Technologies has casted, DN 600 Angle Glob Valve Manufactured by the Gedik Termo Valve

DN 600



Globe Angle Valve Body -Bronze Rg10 / 800 kg



1.4462 / 550 kg Duplex



1.4470 / Duplex



1.4517 / 700 kg



GSC-25 / 400 kg



316L / 200 kg



1.0619 / 350 kg (Heat Treatment)



1.4470 / 1500 kg



Cu AL10Ni / 500 kg



1.4470 / 400 kg



CuAL10Ni / 100 kg

Gedik Advanced Casting Technologies





Gedik Advanced Casting Technologies with highly qualified and experienced engineers serves its customers the aid of modern production and quality control equipments as well as using simulation tools.

Features

- 1.000 tonnes annual capacity
- 2x 150 Kg melting capacity induction furnace
- 2x 250 Kg melting capacity induction furnace
- 1x 100 Kg melting capacity electrical melting furnace
- The weights of the parts from 10 gr to 50 kg

Materials

- Low and High Alloy C-Steels
- Stainless Steels
- Super Alloys
- Cu-Alloys

Sectors

- Defence Industry
- Firearms Industry
- Automotive Industry
- Pump and Valve Industries
- Textile Industry
- Machine Industry

- Medical Industry
- Food Processing and **Chemical Industry**
- Electric Power Equipment
- Tools and Tool Holders







Examples Of Investment Casting Parts































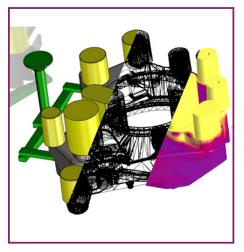




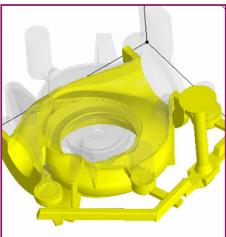




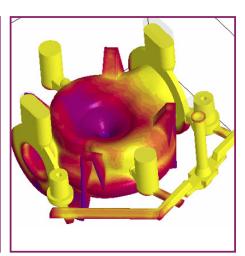




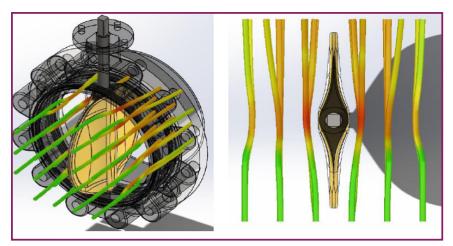




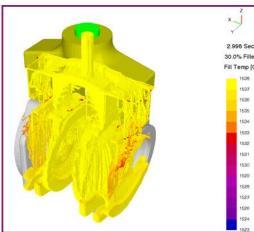
Flow Analysis for Sand Casting



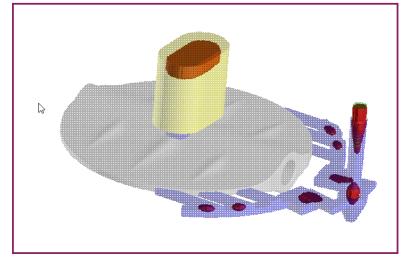
Solidification Gradient Analysis



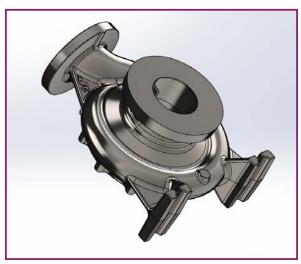
Butterfly Valve Flow Analysis



Flow Analysis for Investment Casting



Shrinkage Analysis



Solidworks



AD 2000 W0



Bureau Veritas



IATF 16949-2016



ISO 9001-2015



ISO 14001



Türk Loydu



TÜR Certificate



ISO 50001



Experts' Choice

Gedik Welding





Certificate Your Global Expertise at **Gedik Test Center**

Gedik Test Center; was established in 2009 certification and industrial services for the education in the field of Non-Destructive-Tests (NDT). Serving a wide range of industrial sectors with its specialized technical and instructor staff, provides high quality of education with modern laboratories, training classes, modern devices and equipments. Gedik Test Center is accredited institution according to TS EN ISO 17024 Personnel Certification standard and also ASNT Corporate Partner providing Non-Destructive Testing Expertise courses according to TS EN ISO 25107 ve TS EN ISO 25108 standarts. Upon completion of the courses participants receive the "Qualification Cerfiticate of Level 1+2 NDT Personnel" according to SNT-TC-1A and TS EN ISO 9712 standards. Gedik Test Center Laboratory that has been accredited by TURKAK according to TS EN ISO 17025 Test and Calibration Laboratories Standard also provides Destructive Testing Services to pipeline production, shipbuilding, steel construction, energy, automotive and defence industries with modern and advanced Mechanical Testing & Metallography Laboratories.













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