



**Fucoli Somepal**  
FUNDIÇÃO DE FERRO, S.A.

SEIT  
SINCE 1946



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**CORROSION PROTECTION**

All products has an internal and external excellent corrosion protection.

The coating quality is controlled according to the requirements of DIN 30677 and GSK (RAL-GZ662).

Fucoli-Somepal has three coating systems - robotic, automatic and semi-automatic - which is electrostatically applied epoxy coating with a minimum thickness of 250µm.

**CONTROL OF THE ENTIRE PRODUCTION PROCESS**

The two Fucoli-Somepal factories are located in Portugal, where is controlled the entire production process ensuring a constant quality of its products. The selection of raw materials sources is rigorous and careful. All raw materials before received are analyzed in our laboratory.

Using a modern automatic pouring system, all products are manufactured in ductile cast iron EN-GJS-500-7 (GGG50).

The mechanization of the products is carried out using the latest CNC Machining technologies.



[www.fucoli-somepal.pt](http://www.fucoli-somepal.pt)

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Fucoli-Somepal develops and produces ductile cast iron solutions for water, wastewater/sewage, gas, fire protection and telecommunication systems, with experience dating back to 1946.

At our two factories in Portugal at Coimbra and Pampilhosa, we employ more than 230 persons and produce a range of more than 6000 different products all in ductile cast iron EN-GJS-500-7.

Today Fucoli-Somepal supplies several kinds of valves, fittings, couplings, hydrants, etc from DN 20 up to DN 1200 and from PN10 up to PN40.



## OUR MISSION

To be an Industrial partner of reference in the production and supply of ductile cast iron products for water, wastewater/sewage, gas, fire protection and telecommunication systems, where Quality, Innovation, Environment, Health & Safety and Social Responsibility, combined with the application of the best available techniques, ensure top quality products, a sustainable development and a proactive and responsible attitude towards the society in which we operate.

## HISTORY

The company was founded on July 29th, 1946, with the creation of FUCOLI – Fundação Conimbricense, Lda. in Coimbra with 10 employees, having started in 1949 the manufacturing of material for the water supply and sanitation sector.

On March 4th, 1957, SOMEPAL - Sociedade Metalurgica Pampilhosa, Lda. is founded in Pampilhosa, dedicated to the manufacture and commercialization of various types of valves.

In 1990 FUCOLI acquired the share capital of SOMEPAL having, from that date on, started a number of important investments with the production process modernization and implementation of the Quality Management System in FUCOLI (in 1996) and SOMEPAL (in 1994).

In December 1998, the merging of FUCOLI with SOMEPAL happens, which made available to the market a larger production unit with greater assurance of continuity and growth. The company denomination has, since then, become FUCOLI-SOMEPAL, Fundação de Ferro, SA.

One of the major concerns of the company is its sustainable development, the company had in 2009 its Environmental Management System certified in accordance with ISO 14001.

In 2014 Fucoli-Somepal has obtained the OHSAS 18001 certification of his management system for occupational health and safety.

With a strong focus on the development and control of the entire production process, using the most advanced technologies associated with the competence and dedication of its employees, it offers reliable technical solutions and high quality for total satisfaction of its customers, fulfilling the most demanding standards.

Today Fucoli-Somepal products are certified for several international organizations like: ACS (France), AENOR (Spain), KIWA (Netherlands), RINA (Italy), among others.

## IN OUR ULTRA-MODERN FACTORIES WE HAVE A PRODUCTION CAPACITY OF 15.000 TONS OF CAST IRON PER YEAR AND A COMPLETE CONTROL OF THE PRODUCTION PROCESS

### PRODUCTS DEVELOPMENT

A highly qualified and long experience team and advanced software guarantee innovative solutions of the highest quality. We assure a dynamic, flexible and innovative solutions to answer to our customers' challenges and needs.

### MOLDING

Fucoli-Somepal develops and produces in the most modern production machines, their own molds, which makes possible a prompt development of new products or new solutions to solve the Customer problems.

### FOUNDRY

Equipped with a modern foundry, Fucoli-Somepal produces all its products in Ductile Iron EN-GJS-500-7. Using raw materials prior carefully selected, all ductile cast iron produced is subject to a rigorous and constant monitoring conducted in its own laboratory, equipped with the latest technologies, guaranteeing a final product of high quality. All production is controlled both in terms of chemical composition and metallographic structure, and all components have reference to the production lot, allowing a fast tracking.

### MACHINING

Equipped with the most advanced and productive CNC machining with a very large machining capacity, manufacturing each component as an exact match working within the strictest of tolerances, producing the highest quality parts.

## EPOXY COATING

The epoxy coating can be applied in one of three different but all efficient and modern systems: robotic, automatic and semi-automatic system.

**The corrosion protection is critical for the service life of the final product, each batch of epoxy coated pieces are quality controlled according the requirements of DIN 30677 and GSK (RAL-GZ662), as follows:**

- Blast cleaning control;
- Ovens and pieces temperature control
- Layer thickness: ensuring a minimum coating thickness of 250µm;
- Impact resistance: By dropping a steel cylinder of 500 grams on the coating surface through a height of 1 meter, corresponding to an impact energy of 5Nm. After each impact the piece is electrically tested;
- Pore-free coating: Using a 3V detector reveal and locate electrically any pinholes in the coating;
- Cross linkage (MIBK Test): Confirm the epoxy coating curing, performed by a drop of several methyl isobutyl ketone on a coated piece and after 30 seconds the test area is wiped with a clean white cloth. The test surface may not become matt or smeared, and the cloth must remain clean.

However a perfect epoxy coating is also only possible if we have a perfect ductile cast iron production. Regarding to this, Fucoli-Somepal is without a doubt, one of the greatest expertise worldwide.

## ASSEMBLING

Using the lean production principals and a professional team all products are carefully assembled, in assembling lines, internally designed, taking care about customer needs and productivity.

## HYDRAULIC TESTS

All valves are 100% hydraulic tested before leaving the factory.

Soft sealing gate valves are tested as follows:

- In open position with pressures at 1.5 x nominal pressure;
- In closed position on both sides at 1.1 x nominal pressure;
- In closed position on both sides at low pressure test;
- Closing torque measure test.

## EFFICIENT PACKING

Ensure that the product reach to our Customers in perfect conditions and with an excellent corrosion protection. Each product is packaged to avoid any damage during transit to ensure that arrive to our customers in perfect conditions.