

## VERMILOY® SPHEROIDIZER

**Compacted graphite iron (CGI)** also known as **vermicular graphite iron** is a unique construction material. In terms of physical, mechanical and casting properties, it falls between spheroidal graphite iron (SGI) and lamellar graphite iron (LGI). Its casting properties, shock-absorbing capacity and thermal conductivity are almost the same as those of LGI, and its strength properties are commensurate with those of individual SGI grades.

CGI castings are used successfully for manufacturing metallurgical equipment (ingot molds, chill molds, stools, etc.) and for construction of diesel engines.

When producing CGI castings, such a method should be utilized that ensures the vermicular graphite structure consistently meet relevant requirements. Ordinary multicomponent spheroidizers like FeSiMg have low REM contents (0.3-1.0%). This does not make it possible to ensure consistent compacted (vermicular) graphite structures because the required range of residual magnesium is rather narrow (0.015-0.028%).

To ensure consistent compacted graphite structures, our company has developed a spheroidizer, **VERMILOY®**.

The combination of active components, their quantitative ratio and the special method of production of the **VERMILOY®** spheroidizer make it highly efficient and its spheroidizing effect may last up to 35 minutes. This ensures a high degree of its recovery in liquid irons whose temperatures may exceed 1,250°C

When liquid irons are treated with the **VERMILOY®** spheroidizer in open-topped ladles, the resultant flare and fumes are insignificant. This testifies to the fact that the degree of its recovery is high. As a rule, the weight of a spheroidizer introduced into a ladle does not exceed 1% of that of the melt.

**Standard sizes:** 0.2-1 mm, 1-10 mm, 1-20 mm

Consumption of this spheroidizer is 8-12 kg per 1 t of the melt depending on its chemical composition, method of its introduction and the chemical composition of the melt.

### **Packaging:**

- PE-lined big bags with capacities of 0.5 and 1.0 tons
- Paper bags with capacities between 5 and 25 kg
- Cored wires