



SBZ

Flux VG-53

SPECIALLY DEVELOPED FOR FERROUS METALS
(gray irons, ductile irons, and steels) to ensure "cleaner"
parts at the end of melting.

MAIN FUNCTIONS

Slag Optimization

Extends refractory lifespan and
makes slag more fluid, making it
easier to remove.

Metal Quality

Does not interfere with chemical
composition, promoting the fixation
of the initial composition's elements
to ensure high quality.

Mechanical Improvement

Increases metal fluidity and
drastically reduces the risk of
microcracks and fissures.

INSTRUCTIONS FOR USE

INDUCTION FURNACES

0.15% of the solid charge.

FURNACES UNDER 300 KG

0.750 kg per heat.

CUPOLA/ROTARY/OIL-FIRED FURNACES

0.30% of the solid charge.

CHEMICAL COMPOSITION (Content in %)

Si	14,00 to 16,00
Al	2,50 to 3,20
Mg	4,00 to 5,10
Mo	0,20 to 0,40
Cr	1,70 to 2,20
Ni	1,25 to 1,65
Mn	2,00 to 2,65
Ca	1,75 to 2,50
R.E.	0,70 to 2,50
Fe	Balance

PERFORMANCE RESULTS

Operational tests demonstrate the
efficiency of FLUX VG-53 in furnace
optimization:

PARAMETER	Study A (1.500 kW)	Study B (750 kW)
TIME REDUCTION	20 min (110 → 90 min)	15 min (105 → 90 min)
ENERGY SAVINGS	7,12%	5,22%

INOFlux17

INOFlux21

Iron inoculants are additives used during casting to improve the formation of the cast iron structure at the moment of solidification.

MAIN FUNCTIONS

- Promote graphite formation, reducing the occurrence of undesired carbides.
- Improve mechanical properties, such as strength, machinability, and toughness.
- Ensure greater uniformity of the part's microstructure.

Inoculants control the solidification of cast iron, resulting in parts with better quality, higher performance, and greater reliability.

VIGUS INOCULANT LINE

INOFLUX 17 (Ca/Ba)

Application:

High performance for gray and ductile (nodular) cast irons.

Particle sizes:

1 to 3 mm | 0.3 to 0.8 mm.

INOFLUX 21 (Zr)

Application:

Structural control based on Zirconium.

Particle sizes:

1 to 3 mm | 0.3 to 0.8 mm.



vigus.com.br

produtos@vigus.com.br

Contact: +55 (19) 3533-8691

Rua 1 JC, 202 – Rio Claro, SP – CEP 13503-513

VIGUS INDÚSTRIA DE ADITIVOS LTDA



Indústria de aditivos Ltda.