

# KARBURIT PK

## CARBURIZING AGENT

### DESCRIPTION

**KARBURIT PK** is a carburizing agent for grey cast iron, malleable iron casting and steel. It is manufactured of petroleum coke.

### ACTION

**KARBURIT PK** is dissolved in iron and thus the carbon content is increased.

### INSTRUCTIONS FOR USE

**KARBURIT PK** is applied for carburization of melt in crucible induction furnaces or steel in ladles. It enables to manufacture synthetic grey cast iron from steel scrap and also to correct the composition of steel in the ladle after tapping.

### MANUFACTURING GREY CAST IRON

The needed amount of **KARBURIT PK** is charged into the induction furnace together with the burden. In calculating the burden a 90 % yield of **KARBURIT PK** is taken. Since the dissolution rate of carbon in iron is the higher the lower are contents of silicon and phosphorus, those two elements are alloyed only after the completed melting. Dissolution rate is proportional to the iron melt temperature.

### MANUFACTURING CAST STEEL

If the final analysis of steel in the furnace shows a too low carbon content, a needed amount of **KARBURIT PK** is dropped on the ladle bottom and molten steel is poured onto the top. Greater amount of **KARBURIT PK** are gradually dropped into the melt jet during the filling of ladle. A 90 % yield of **KARBURIT PK** is taken.

### PACKING

**KARBURIT PK** is packed in big bags at net cca. 1000 – 1600 kg each, or in natron bags at 20 or 25 kg each, on wooden pallets, covered with PVC foil (at 1000 kg on the wooden pallet).

### STORING AND TRANSPORT

**KARBURIT PK** must be protected against atmospheric precipitation's in transport and storing.

According to the European regulations for international road transport of dangerous goods, **KARBURIT PK** is not a dangerous substance.

### PROPERTIES

Sulphur content:	max. 1,4 %
Volatile content:	max. 0,4 %
Carbon content:	min. 98 %
Moisture content:	max. 0,5 %
Granulation:	0 - 1 mm, 0 - 2 mm, 0 - 6 mm, 1 – 6 mm, 3 – 6 mm or by arrangement