KARBOSTIL CARBURIZER

Description
KARBOSTIL is a pelleted carbon material with a carbon content of 99.2-99.7%. The high purity and the special internal structure of the material make it an effective carburizing agent.

Technical specifications
Pellet size, mm: 1.0-10.0
Bulk density, g/cm³: 0.6-1.0
Carbon content, %: 99.2-99.7
Sulfur content, %: 0.01-0.4
Ash content, %: 0.05-0.3
Aluminum content, %: 0.005-0.01

Technical appraisal and economic benefits
KARBOSTIL is the most effective in doping low-carbon semiproducts with initial concentrations of 0.06-0.15% in a circulation degassing plant (RH). The unique properties of KARBOSTIL ensure a high doping accuracy of ±0.02 % over a wide range of consumptions from 0.05 to 1.0 kg per 1 ton of the product with a percentage recovery of 92-95 %.
The use of KARBOSTIL instead of traditional materials (coke, crushed electrodes) in a circulation degassing plant increases the percentage recovery of carbon from 62±21 to 94±3% and improves the quality of cord steel, which is especially sensitive to the nature of nonmetallic inclusions.

Application areas
The material is used for precise carburization of metals in vacuum or to adjust the elemental composition of metals within 0.02-0.2 %. Experimental batches of KARBOSTIL have been used in the cord steel production at the Byelorussian ironworks (Zhlobin).

Development stage
Pilot batches of KARBOSTIL have been produced at the Technological Institute of Industrial Carbon, SB RAS.

Patent situation
Know-how is available.

Commercial offers
Supply contract, license agreement, and know-how transfer.

Estimated cost
The estimated cost of KARBOSTIL is 36 rubles/kg.

Contacts
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