



Date of issue: 01 Sept 1995

**SILICON CARBIDE - SiC**

Date of validity: 09 Jul 2011

**1. PURPOSE OF USE**

It is used for increasing the number of nuclei in melt cast iron as well as for adding silicon and carbon into the induction furnace in the production of grey and nodular cast iron.

**2. GENERAL QUALITY REQUIREMENTS**

Conformity with the manufacturer's catalogue.

**3. PROPERTIES OF MATERIAL**

Silicon carbide is based on silicon carbide with granulations of 1 to 10 mm , with the lowest number of impurity, such as S.

**4. PACKAGING, PACKING AND TRANSPORT**

Transport must be protected against the atmospheric impacts. Packaging must include the manufacturer's designation, name, batch number, date of production and net weight. Material must be packed in bigbags.

**5. WARRANTY OF QUALITY**

For each shipment, the quality assurance certificate is required by batches, regarding the:

- SiC content
- Granulation
- Content of S,  $C_{free}$ ,  $SiO_2$
- Moisture content

**6. MANNER OF ACCEPTANCE**

Silicon carbide will be accepted by the acceptance control of LIVAR according to the prescribed quality characteristics.

**7. CONTROL PROCEDURE**

Chemical and sieve analysis is conducted in case of doubt in the correctness of statements in the certificate. The acceptance control provides for quality verification at a verified external institution.



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**8. MANNER OF MEASUREMENT****QUALITY CHARACTERISTICS, VALUE, MANNER OF MEASUREMENT**

NAME: SILICON CARBIDE - SiC

<b>QUALITY CHARACTERISTICS</b>	<b>VALUE</b>	<b>MANNER OF VERIFICATION</b>
SiC content	min. 88 %	Certificate
SiO <sub>2</sub> content	max. 6.0 %	Certificate
Moisture	max. 0.5 %	Certificate
S content	max. 0.2 %	Certificate
C content	max. 6.0 %	Certificate
Granulation	0 – 10 mm Max 10% under 1 mm	Sieve analysis