

SILICON CARBIDE CONTENT

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SCOPE:

For determination of Silicon Carbide Content of Synthetic Graphite.

APPARATUS:

1. 150 mm long sample thief.
2. Sample riffler.
3. Previously ignited porcelain crucible. Dimensions: 50 mm diameter, 32 mm high.
4. Muffle furnace (heating capacity to 1200 °C).
5. Balance accurate to 0.0001 g.
6. Desiccator.
7. Binocular microscope with 10:100 measuring grid x 10 lens.

PROCEDURE:


1. **Sampling.**

Take an equal volume sample from the specified number of bags according to B8F2-26 (Raw Material Sample Test Frequency & Sampling Quantities) using a 150 mm long sample thief. Combine the samples and riffle split to an 8 gram composite test unit.

2. Weigh the composite test unit in the crucible.
3. Place the crucible and test unit in a muffle furnace for 12 hours @ 950 °C ± 25 °C.
4. Allow to cool slightly then place it in desiccator until cold. Reweigh.
5. % Ash can be calculated as follows:

$$\% \text{ Ash} = \frac{\text{Wt. of test unit after Ashing} \times 100}{\text{Wt. of original test unit.}}$$

6. Take the Ash remains and place under 10 x Microscope. Count the individual Silicon Carbide particles (dark and shiny in appearance). Record the total number and size of particles counted in the test unit.

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	ISS	REVISION	DATE	DR.	AP'D	
	5.	Sampling updated	06.12.93	YG	LR	DRG. No B8E1-28
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