

### Silicon Carbide Lids



Silicon carbide (SiC) is a chemically inert material with extreme high mechanical stability. This combination of properties is responsible for an improved service time for digestion vessels lids used for hydrofluoric acid (HF) applications in HPA-S.

In contrary to glassy carbon the wall thickness of SiC-lids is not limited during production. In addition to the stronger design the hardness of SiC will drastically improve the stability of the closing lids. Even strongly chemically attacked lids will withstand the closing pressure in the autoclave increasing the number of applicable digestion runs for each lid.

The robust parts improve the handling while cleaning or during filling the autoclave compared to glassy carbon lids.

The new SiC-lids (89818) will be delivered starting from January 2011 as standard part in every glassy carbon conversion kit (60816) for HPA-S. The glassy carbon lid (60812) will be still available on request for Si-analysis. For any other application the improved SiC-lid should be ordered for replacement and new vessel kits!

#### Advantages of SiC

- Excellent corrosion resistance
- High mechanical stability
- Extended service time

#### Fields of Application

- Total digestion of soils, sediments and rocks using hydrofluoric acid
- Digestion of high Ni and Cr steel alloys
- Digestion of plant materials including higher silicate contents like leaves or grass

#### Ordering Information

##### **89818 Lid Ø25 SiC**

SiC-lid for glassy carbon reaction vessels for improved service time.

##### **60816 Conversion Kit 6x20 mL GC**

Complete conversion kit including 6 reaction vessels made of glassy carbon (60811), 6 SiC-lids (89818), a heating block (60813), a rack for the reaction vessels (60810) and 10 rolls of PTFE-sealing film (57886).