

## Haiflon® PTFE Compound SGC-15CAR

**85% VIRGIN PTFE**

**15%±1% CARBON COKE**

Haiflon® PTFE Compound SGC-15CAR is a carbon coke filled PTFE compound consisting of 85% virgin PTFE and 15%±1% carbon coke. It offers improved thermal conductivity, good wear resistance under high load, and low friction properties compared with unfilled PTFE, while maintaining excellent chemical resistance and wide service temperature range. This material is suitable for bearings, bushings, seal rings, and valve parts where high durability under load is required.

Composition By Weight % & Filler Description

| Property              | Test Method | Unit              | Value     |
|-----------------------|-------------|-------------------|-----------|
| Specific Gravity      | ASTM D-4894 | g/cm <sup>3</sup> | 2.10±0.05 |
| Tensile strength*     | ASTM D-4894 | MPa               | Min 16    |
| Elongation at break*  | ASTM D-4894 | %                 | Min 180   |
| Bulk Density          | ASTM D-4894 | g/L               | 750±50    |
| Hardness              | Shore D     | —                 | 56–61     |
| Diametric Shrinkage   | Internal    | %                 | 2.0±0.5   |
| Flow                  | Internal    | Sec/120g          | ≤5        |
| Average Particle Size | ASTM D-4894 | µm                | 500±100   |

\*Cross direction

Recommended Processing Conditions

Recommended Moulding Pressure: 400-450kg/cm<sup>2</sup>

Max Sintering Temperature: 370-375°C

Safety toxicology

This product is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed.

Packing,Storage &Transportation

- Packed with sealed PVC bag,load in waterproof paper barrel.The net weight is 25±0.1kg per barrel.
- Not classified as hazardous for transport.Avoid shaking and heating during transportation.
- It should be stocked in clean,cool and dry warehouse,prevent from agglomeration and contamination.