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CF.OS.I-6mm cut carbon fibers TECHNICAL DATA SHEET

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– **CF.OS.–6mm** : mixture **of all origins** carbon and graphite ex-PAN fibers, obtained from spools of pure carbon fibers, cut for the widest range of short fibers applications. A special sizing has been added in order to enhance the compatibility with the applied matrix. The sizing can be custom made to suit your application or specific matrix. **Its compatibility needs to be checked on each new batch and for each new application**.

PROPERTIES AVERAGE VALUES *(minimum values)* *Chemical and physical properties are unchanged.*	
Carbon fibers content* from which ex-PAN fibers*	100 % *(100 %)* 100 % *(100 %)*
Carbon content*	94 % *(> 92 %)*
Original Sizing level* Density (continuous fiber)*	1.4 % ± 0.6 1.7 < d < 2.0
Mono filament diameter*	7 µm ± 2
Volume resistivity* average volume resistivity for n monofilaments (n > 1000)	15 µΩm (20 maxi)
Sizing Type	High Temperature Compatible Sizing
Oversizing Level	3.3 % ± 1.0
Mean length	6 mm ± 0.5
Mass distribution	90 % ± 5
Bulk density	0.5 kg/dm3 ± 0.05
Metal contamination**	< 0.05 g / 1000 g
Recommended Matrix	Polyamides, PC, PPS, PEI, PI, PEEK, thermoset resins

*Average values excerpt from the technical data sheets of the ex-PAN ''high strength'' fibers that we use in our mixture for more than 90%. The ≤10% remaining are ''high modulus'' fibers from same various producers. All these values, in the same way for length, distribution, bulk density, metal contamination, **are given as a rough guide and do not in any way engage APPLY CARBON's responsibility**.

**All our cut fibers are controlled through an X-rays control that permits to eliminate particles from 1 mm^3 (Pb, Cu) to 6 mm^3 (Al) depending on metal density ; aluminium chips or sheets, even of several cm^2 , can't be detected.

Health and Safety : Carbon fibers are not dangerous for health. However, as short fibers and dusts, they cause irritation on skin, eyes, tract; the sizing sometimes causes allergies. People will have to wear dust protections as face masks, light overalls, glasses, gloves. Carbon fibers are **electricity conducting materials**.

The value given here are just tested value and does not represent in any case contractual data.