

APPLY CARBON S.A. - PROCOTEX S.A. CORPORATION

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CF.OS.H-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 % <i>(100 %)</i> 100 % <i>(100 %)</i>
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	Water Soluble Sizing
Oversizing Level	1.6 % ± 0.8
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	Water Medium, PLA, PVA, PVAc

^{*}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 \leq 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.

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**.

^{**}All our cut fibers are controlled through an X-rays control that permits to eliminate particles from 1 mm³ (Pb, Cu) to 6 mm³ (Al) depending on metal density; aluminium chips or sheets, even of several cm², can't be detected.