

Carbon Fibre Facility Successful Public Private Partnership

Carbon fiber is a high strength, high-stiffness but low weight material, used extensively in manufacture of aircraft, missiles, launch vehicles and satellites. It is also an important raw material in many vital industrial applications such as wind energy, infrastructure, sports and transportation, to name a few.

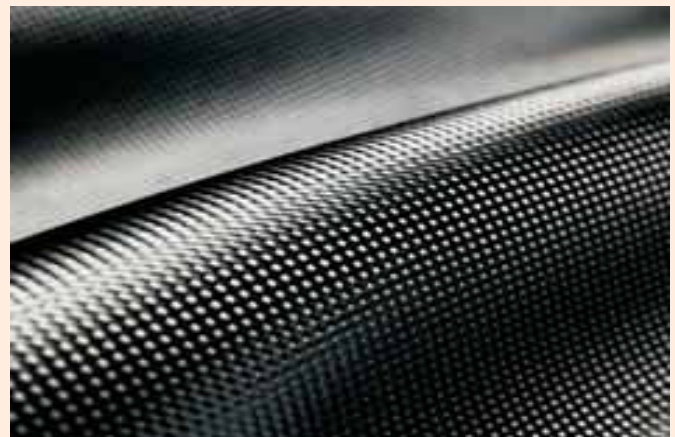
CSIR-NAL pioneered the development of carbon fiber technology and demonstrated the same on a pilot plant of 10 TPA capacity. Subsequently, CSIR-NAL successfully transferred the technical know-how to Kemrock Industries and Exports Limited, Vadodara, for the production of carbon fiber on commercial scale up to 350 TPA; Kemrock commissioned India's first commercial scale carbon fiber manufacturing facility on May 9, 2010. Type certified by Centre for Military Airworthiness and Certification (CEMILAC), Bangalore on September 21, 2011.



Carbon fibre plant at NAL



Carbon fibre plant at Kemrock



Carbon fibre

Technical details:

Base Material : Carbon Fibre

Grade : 3K, 6K and 12K

Specification : Test schedule ADA/AF/COMP/R03/2011 No.1 dated August 26, 2011

Source of Supply : M/s KEMROCK Industries and Exports Ltd., Vadodara

End Use : Manufacturing of prepregs commonly employed in the construction of aeronautical structures.

Storage life : 12 months (from date of application of sizing/finish) when stored at room temperature with adequate protection from dust.



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