

SPORT

TRANSPORT

Solvents in Carbon-fibre-reinforced polymers (CFRP)

Why is the role of solvents essential?

Ketones are used in carbon-fibre-reinforced polymers (CFRP) – plastics renowned for their exceptional strength and lightweight properties. CFRP can be used in body panels for cars or in wing spars and aircraft fuselage components, increasing the high strength-to-weight ratio.

The carbon fibres are layered with epoxy resins, and the high solvency power of ketones softens the resin, facilitating its easy and uniform application between the layers. The solvent's low boiling point allows it to evaporate quickly, enabling the layers to bind easily and form a robust and durable product.

Additionally, CFRP is widely used in various sports equipment including squash, tennis, and badminton rackets, sport kite spars, high-quality arrow shafts, hockey sticks, fishing rods, surfboards, high-end swim fins, rowing shells, skis and snowboards.

INDUSTRIAL & PROFESSIONAL USE

Benefit Green Deal

Longer lasting products that can be repaired, recycled and re-used



SPOT ON

Ketones such as:

Acetone (CAS: 6764-1 – EC: 200-662-2)

Methyl ethyl ketone (MEK) (CAS:78-93-3 – EC: 201-159-0)

Methyl isobutyl ketone (MIBK) (CAS: 108-10-1 – EC: 203-550-1)

