

**ICC-Spin Finish Oil****Chemical Name: Spin finish oil****Grade: Chemical**

A spin finish is a liquid composition that is applied to the surfaces of man-made fibres in order to improve the processing of such fibres in short-staple or long-staple spinning. The following terms are all used to define the same thing: spin finish, spinning finish, waxing, size, dressing, coating, fibre finish, spinning lubricant, agent, textile treating composition, textile treating agent. An electrostatic charge is generated on fibre surfaces during processing due to friction between the fibres themselves or between them and parts of the spinning machinery with which they come into contact. A spin finish can reduce the amount of friction to a level which avoids problems such as end-breaks in fibres. Spin finishes consist of several components, including:

Mixture of heat-resistant polyalkene glycol ethers, alkoxyated fatty alcohols, anionic antistatic agents, and other additives.

Application:

Spin finish oil can be sprayed onto the fibres as in the case of top blending in the gill box frames in the opening and cleaning lines (blow room) during processing of long-staple fibres. In short-staple spinning, spin finishes are sprayed onto the fibres during sandwich blending (wool preparatory stage) and top blending (box drawframe), or onto the roving by droppers or jets. They can be applied by either backwashing or spraying in the wool industry.

Storage:

spin finish oil is stable for 1 years when stored in the original sealed containers in a cool, dry place. Furthermore the containers should not be exposed to direct sun light. Ambient temperatures for long term storage are preferably between 10°C and 25°C and between 0°C and 30°C as maximum. Storage at higher temperatures is possible only for a short time and should be kept below the solidification point of the products. The most suitable material for storage tanks is stainless steel, pure aluminium, rubber-or polyethylenelined containers and storage tanks made from glass-fibre-reinforced polyester (GRP). The tank should be ventilated by means of a silica gel dryer. Conventional steel tanks are of limited suitability because after prolonged storage the product may become discoloured owing to traces of iron.

Packaging:

Bulk or 220 Lit (net 200 kg) new drums, each 4 drums strapped on a pallet.

TEST	STANDARD TEST METHOD	STANDARD
Appearance at 20°C	—	liquid
pH	ASTM D-1172	6-7
Active content	ASTM E-203	85-90
Density at 50°C, g/ml	ASTM D-1298	1.10±0.02
Ion type	—	Nonionic/ anionic
Viscosity at 25°C, cp	ASTM D-445	143±10

Safety

Pure products can cause skin irritation; spin finish products are only slightly toxic, and therefore safe for use in domestic cleaning products. When handling pure chemical products, we recommend the use of individual protection equipment.

In the event of accidental contact, proceed as follows:

Eyes: wash immediately with plenty of water for at least 15 minutes.

Skin: wash the area affected with plenty of water and remove contaminated clothing.

Ingestion: seek medical care urgently.