

## Technisches Merkblatt

# Kopal 5001, alcohol-soluble

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Alcohol-soluble Copals (origin: Philippines, Indonesia, Malaysia) are mostly recent to semi-recent, partly also fossil natural resins. They show hardness, permanent elasticity, fullness and good yellowing resistance.

### Technical Data:

	Value	Unit	Test Method
Melting point	100 – 120	°C	
Acid value	100 – 120	mg KOH/g	
Saponification value	145 – 190	mg KOH/g	
Colour, Gardner	3 – 6		
Residues	ca. 2	w%	
Delivery form	coarse		

### Application and properties:

Alcohol soluble copals show excellent hardness, long lasting elasticity and resistance to yellowing. Kopal 5001 is well soluble in alcohol, glycol-ethers and esters, partially soluble in ketones. In aliphatic and aromatic hydrocarbons it is insoluble. Kopal 5001 is well compatible with colophony, alcohol-soluble maleic ester gums, ester- and alcohol-soluble nitrocellulose, polyvinyl acetates and blown castor oil. This Kopal is also compatible with several other varnishes, but its recommended to test before use.

Kopal 5001 is mainly used for paper- and wallpaper-varnishes, pattern enamel and similar applications. Additives of small contents of nitrocellulose or polyvinyl acetate increases the scratch resistance considerably especially for paper varnishes. When mixing Copal with other filmformers, its recommended to produce each solution separately and mix them afterwards.

Like all natural raw materials with origin in tropical climates the characteristics of alcohol-soluble Copals may fluctuate. However, this very standardized grade has been well-known for years because of its uniform results.