

# UHU



**KARLSONS**  
UNIVERSALKLISTER



## Technical Data Sheet

Karlsons Universalklister is a colourless synthetic resin adhesive for universal application in do-it-yourself work, in home, office and model building etc.

### Specification:

Appearance.	Colourless, highly transparent solution
Consistency:	low viscosity
Base:	polyvinylester
Viscosity [dPa·s]:	30 - 45
Solid content [%]:	32 - 35
Density [g/cm <sup>3</sup> ]:	0.97 – 0.99
Solvent:	mixture of low-boiling esters, ketones and alcohol
Flash point [°C]:	- 13
Directives:	highly flammable, irritant
Danger symbol:	flame symbol
Danger class VbF:	B

### Properties:

Karlsons Universalklister exhibits excellent adhesive strength on metals, wood, paper, textiles and leather and is also very suitable for the bonding of such materials with glass, ceramic materials and Plexiglas®.

The glue's heat resistance is determined by the thermoplastic nature of its synthetic resin. Thus, glued parts should not continuously be exposed to temperatures above 70 °C. However, the maximum temperature resistance of a completely dried adhesive film is at least 120 °C.

Karlsons Universalklister is resistant against water, diluted acids, alkalines and also petrol and oil. It is not resistant, however, to alcohols (e.g. denatured alcohol, white spirit), ketones (e.g. acetone), esters (e.g. ethyl acetate) and aromatic solvents (e.g. toluene, xylene).

Bond strength: on beechwood test specimens tensile strength values (end values) of about 500 N/cm<sup>2</sup> have been obtained.

Electrical Data:	Specific volume resistivity:	at 0.1 mm film thickness: 10 <sup>14</sup> Ω·cm
	Breakdown voltage:	at 0.2 mm film thickness: 440 kV/cm
	Surface resistance:	at 0.2 mm film thickness: 2 x 10 <sup>11</sup> Ω·cm

**Physiological Properties:** The dried adhesive is inert, completely neutral and physiologically indifferent.

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### Treatment:

The surface for bonding must be clean, dry, and free of oil and grease. Depending on the requirement, one or both of the parts for joining are spread with adhesive and brought together immediately, but in any case not later than after one minute. The increase in strength occurs after evaporation of the solvent. Approx. two thirds of the final strength are obtained after 24 h.

### Cleaning:

Smearred adhesive should be wiped off as soon as possible. Dried residues, spots on clothing etc. can be removed with dissolving agent. Denatured alcohol or acetone can be used as an alternative.

### Precaution:

Karlsons Universalklister contains volatile, highly inflammable solvents. Appropriate precautions should therefore be taken during storage or when working with the adhesive.

### Please note:

These guidelines have been compiled on the basis of numerous tests and experience. This Technical Data Sheet has been prepared to the best of our knowledge and should provide you with advice when gluing. Given the wide range of materials and possible combinations, we however recommend carrying out your own tests if necessary to adapt the adhering technology to the case in question.

We cannot assume responsibility for the results and damages in the respective application on account of the many other possibilities involved (type and combination of materials and method of application) over which we have no control. You should carry out your own tests and trials. A warranty can only be accepted for the constant high quality of our product.