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## TUBIVIS DRL 170

<b>Characterization</b>	Pasty, synthetic thickener with high solids content
<b>Chemical Structure</b>	Ammonium salt of polymeric carboxylic acids
<b>Supplied Form</b>	Light beige, pourable paste
<b>Ionic Character</b>	Anionic
<b>pH Value</b>	7.5 – 8.2 (%2)
<b>Stability</b>	<p>TUBIVIS DRL 170 is excellently compatible with the auxiliaries, binders and colour pigments normally used in pigment printing. It is sensitive to agents causing hardness of water, electrolytes, cationic auxiliaries as well as to acids and strong alkalis.</p> <p>The product is very sensitive to frost. After temperatures far below the freezing point permanent changes occur.</p> <p>It is sensitive to temperatures above 40 °C.</p>
<b>Storage</b>	In a cool and dry place in well-closed original containers. The containers should be stirred up before use. We recommend not to exceed a storage time of 12 months. Opened containers have to be closed again tightly.

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## Properties

Print pastes produced with TUBIVIS DRL 170 have very good flowing properties and an excellent printing behaviour.

The rheological properties of TUBIVIS DRL 170 allow an optimum print, even on fabrics which are difficult to print. The special advantages of this thickening system can be seen with the excellent sharpness of outlines of prints on synthetic fibres and their blends.

### Preservation:

Due to their synthetic structure stocks of synthetic thickeners are normally not attacked by bacteria, even if standing for a prolonged time. However, if it should be necessary to add a preserving agent to ready for use print pastes because of special working conditions or adverse climatic influences, it is advisable to use one of the customary preserving agents. Preliminary tests for dyestuff compatibility should be carried out following the recommendations given by the dyestuff manufacturers.

## Application Procedure

### Diluting Instructions

It is advisable to use stock and reduction pastes in order to ensure an optimum ratio of thickener, binder, softener, fixing agent and pigments of all shades.

Due to the good dispersibility of TUBIVIS DRL 170, it is possible to afterthicken thin print pastes by directly stirring in some TUBIVIS DRL 170. Care must only be taken that the entire preparation is mixed completely and homogeneously.

### Textile Substrates

TUBIVIS DRL 170 can be printed on all kinds of textile materials which are sufficiently heat-stable, independently of their form.

### Recipe Recommendation

Water	x
CHT-ANTIFOAM BS	2
TUBFAST	60 - 200
TUBISOFT	0 - 15
TUBIVIS DRL 170	16 - 20
TUBIGAT A 60	4 - 8
TUBIFIX	0 - 10

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In pigment printing without white spirit it is normally not necessary to add an acid donor since the thickener serves as acid donor. With adverse curing conditions we recommend to add diammonium phosphate solution (1 : 3 in water) as acid donor.

The effective application amount of the thickener depends on the degree of hardness of the water, the content of electrolytes, the auxiliaries and the viscosity desired.

### Drying/ Curing

The prints are dried and cured. The drying temperature may be well above 100 °C. Fixation should be effected for 5 min at 150 °C or for 2 min at 170 °C dry heat to achieve optimum fastness levels.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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