

# Product Information

## Wet-End



Edition 2009

### MAGNOPAL® FIS – Special polymer for filling, firming and sealing

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<b>Features</b>	MAGNOPAL® FIS is an acrylic based polymer with special retanning properties.
<b>Charge</b>	Anionic
<b>Lightfastness &amp; Heat resistance</b>	Good
<b>Effect on leather colour</b>	Has no bleaching effect.
<b>Handling</b>	Can be diluted with water in all proportions.
<b>Stability to acids and electrolytes</b>	Care must be taken to check stability in the intended application.
<b>Stability to chrome tanning agents</b>	Not stable
<b>Handling</b>	Wear gloves and goggles during handling & close containers tightly after use. <b>Always stir before use.</b>
<b>Storage stability</b>	Can be stored for about 1 year (from date of production) if kept between 10°C and 30°C. In any case, protect from frost and heat above 35°C.
<b>Benefits</b>	MAGNOPAL® FIS is a lightfast and heat resistant polymer which can be used together with other retanning, neutralizing and fatliquoring agents in the preparation of full grain, corrected grain, split and all full and firm types of shoe upper leathers.
	MAGNOPAL® FIS : <ul style="list-style-type: none"> <li>• imparts outstanding filling &amp; firming properties</li> <li>• has a strong fibre-sealing effect making it highly suitable for vacuum</li> <li>• dried split leathers</li> <li>• remarkably improves the print-retention of shoe upper and upholstery leathers</li> <li>• has no bleaching effect, thus allowing brilliant &amp; intense shades to be prepared</li> </ul>

Regarding toxicological and ecological data see the safety data sheet of above product.

MAGNOPAL® is a registered or filed trademark owned by or licensed to TFL in most countries.

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## **MAGNOPAL® FIS – Special polymer for filling, firming and sealing**

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### **Application**

MAGNOPAL® FIS is particularly effective in the preparation of firm leathers such as waterproof and non waterproof shoe upper, where exceptional fullness and grain tightness is required.

MAGNOPAL® FIS can be used alone and also in combination with traditional anionic retanning agents.

MAGNOPAL® FIS is best applied in the fatliquor bath at temperatures between 45°C – 60°C.

For best sealing and firming effect 3 – 6% MAGNOPAL® FIS on shaved weight is applied with or after the main fatliquoring before acidification.

The sealing effect is improved by vacuum drying at temperatures between 45 – 70°C.

Depending on the requested article, the following applications are recommended:

Box leather: 2- 4% MAGNOPAL® FIS before main fatliquoring at 50°C

Fibre sealing on split leather: 2 - 4% MAGNOPAL® FIS  
After the main fatliquoring and retanning for 30 min. before acidification.

Firm shoe upper leather: 2- 4% MAGNOPAL® FIS before main fatliquoring at 50°C

Automotive / upholstery leather : 2- 4% MAGNOPAL® FIS before main fatliquoring at 50°

For further information please contact your nearest TFL representative.

### **Appearance at 20°C**

turbid, yellowish liquid

### **Dry content (%)**

approx. 40

### **pH (10%)**

approx. 6.0

### **Safety**

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