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## CONTAVAN TIS

<b>Character</b>	Alkaline stabilizer for peroxide bleaching
<b>Chemical character</b>	Organic chelate forming compounds based on hydroxycarboxylic acids
<b>Appearance</b>	Yellow-brown liquid
<b>Ionic character</b>	Anionic
<b>pH-value of a 10 % solution</b>	2.2 – 3.8
<b>Specific weight at 20 °C</b>	Approx.1.1
<b>Stabilities</b>	<p>CONTAVAN TIS is stable to concentrations of chemicals usually applied for peroxide bleaching.</p> <p>The product is sensitive to frost; changes occurring at low temperatures are reversible on warming and after thorough stirring.</p>
<b>Storage</b>	On proper storage in closed original containers, the product is stable for at least 12 months.

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## Properties

CONTAVAN TIS is a non-surface active stabilizer for the alkaline peroxide bleach. The product gives non-foaming bleaching liquors and can be applied for bleaching procedures with and without silicate of soda.

CONTAVAN TIS has excellent peroxide stabilizing properties, also in the presence of catalytic heavy metals such as iron. Furthermore the product has an excellent dispersing and sequestering capacity and prevents the formation of inorganic and organic alkaline earth precipitations in the treatment baths, heat exchangers and on the fabric.

## Application technique

### Diluting instructions

CONTAVAN TIS can be mixed with cold and warm water at any ratio.

### Application fields

CONTAVAN TIS is suitable for discontinuous and continuous bleaching procedures such as pad-steam-processes and immersion bleaching processes.

Another special application of CONTAVAN TIS is on continuous pretreatment plants when recipes without silicate are used.

CONTAVAN TIS allows for excellent peroxide stability especially on fabric without hardness and ensures a very high DP level by best efficiency of the peroxide.

### Recipe Proposals

Peroxide cold bleach on grey fabric (starch sized fabric)

5 - 10	g/l	CONTAVAN TIS
5	g/l	FELOSAN RG-N
0 - 10	ml/l	Silicate of soda 38 °Bé
5 - 40	g/l	NaOH 100 %
20 - 60	ml/l	Peroxide 35 %
0 - 5	g/l	Persulphate

Liquor pick-up:	80 - 100 %
Impreg. temperature:	20 - 30 °C
Bleaching time:	24 h at room temperature

Pad-Steam Bleach (combi steamer) on pretreated fabric (e.g. desized, demineralized, scoured)

3 - 8	g/l	CONTAVAN TIS
5	g/l	FELOSAN RG-N
0 - 10	ml/l	Silicate of soda 38 °Bé
4 - 15	g/l	NaOH 100 %
20 - 60	ml/l	Peroxide 35 %

Liquor pick-up:	100 - 130 %
Impreg. temperature:	20 - 30 °C
Bleaching time:	10 - 25 min at 103 °C saturated steam

Pad-Roll Bleach on pretreated fabric (e.g. desized, demineralized, scoured)

6 - 8	g/l	CONTAVAN TIS
3	g/l	FELOSAN RG-N
5 - 10	ml/l	Silicate of soda
5	g/l	NaOH 100 %
20 - 30	ml/l	Peroxide 35%

Liquor pick-up:	100 %
Bleaching temperature:	98 °C
Bleaching time:	60 - 120 min

Bleaching on apparatus and Jet machines at 95 - 98 °C

0.5 - 1.0 %	CONTAVAN TIS
0.5 - 1.0 %	FELOSAN NDA
1.5 - 3.0 %	NaOH 100 %
2.0 - 10.0 %	Peroxide 35 %

Liquor ratio: 1 : 10  
Bleaching time: 30 - 60 min

Bleaching on apparatus and Jet machines with HT conditions (110 – 130 °C)

0.5 - 1.5 %	CONTAVAN TIS
0.5 - 1.0 %	FELOSAN NDA
1.0 - 2.0 %	NaOH 100 %
1.5 - 6.0 %	Peroxide 35 %

Liquor ratio: 1 : 10  
Bleaching time: 30 - 45 min

**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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