

## ARRISTAN CPU

<b>Character</b>	Polymeric finishing agent for versatile application
<b>Chemical Character</b>	Dispersion of a modified polyurethane
<b>Appearance</b>	Slightly yellowish liquid
<b>Ionic Character</b>	Slightly cationic
<b>pH Value 100 %</b>	3.8 – 5.3
<b>Specific Weight at 20 °C</b>	Approx. 1.0
<b>Stabilities</b>	<p>ARRISTAN CPU is stable to water hardeners as well as to weak acids and alkalis.</p> <p>Due to its chemical composition, ARRISTAN CPU can be combined with non-ionic and cationic products. In case of doubt, its compatibility should be checked in pretrials.</p> <p>The product is sensitive to frost; after the impact of temperatures far below the freezing point permanent changes will occur.</p>
<b>Storability, Storage</b>	If stored properly, the product will hold for at least 6 months. Storage temperatures above 40 °C may highly decrease the storability of the product.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

## Properties

ARRISTAN CPU is self-crosslinking and forms thus very soft, highly elastic films without the addition of special catalysts.

ARRISTAN CPU stands out for these special properties:

- formaldehyde-free\*
- full, soft handle
- hydrophilic
- stable to shear forces
- can be combined with selected optical brighteners (pre-trials are recommended)
- no condensation necessary

- good liquor stability from the slightly acid to the slightly alkaline range
- wash fast
- can be combined with finishing resins and their catalysts
- suitable for exhaust and padding processes

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## Application Technique

### Diluting Instructions

ARRISTAN CPU can be diluted by pouring cold water over it while stirring.

### Application Fields

ARRISTAN CPU is a versatile polymeric finishing agent for all kinds of fibres.

ARRISTAN CPU is used:

- as additive for handle and surface modifications
- for improving the elastic resiliency
- for the wash fast hydrophilic finish (moisture management finish) of synthetic fibres made of polyamide and polyester<sup>1)</sup>
- as additive in easy care finishes for increasing the easy care effects
- for improving the abrasion resistance, the pilling and snagging behaviour
- as additive in wool finishing
- as binder matrix for functional finishes

<sup>1)</sup>The influence on the colour fastnesses of ARRISTAN CPU on articles dyed with dispersion dyes has been optimised in development, but must be checked individually. We generally recommend the use of dispersion dyes fast to sublimation.

### Recipe Proposals

#### Basic recipe (padder)

30.0 - 60.0 g/l ARRISTAN CPU

pH Value: 5.5

Liquor pick-up: approx. 70 - 80 %

Drying: 100 - 130 °C

#### Basic recipe (exhaust procedure)

2.0 - 4.0 % ARRISTAN CPU

pH Value: 5.5  
Liquor ratio: 1 : 5 - 1 : 20  
Temperature: 40 – 60 °C  
Time: 20 min  
Drying: 100 - 130 °C

#### ARRISTAN CPU for easy care finishing

30.0 - 60.0 g/l REAKNITT FF  
15.0 20.0 g/l REAKNITT CAT FS  
10.0 - 20.0 g/l POLYAVIN PEN  
40.0 - 60.0 g/l ARRISTAN CPU  
20.0 - 40.0 g/l ARRISTAN 71

Liquor pick-up: approx. 70 - 80 %  
Drying: under standard conditions  
Condensation: 3 min at 150 °C or  
30 - 50 sec at 170 °C

#### ARRISTAN CPU for improving the pilling

30.0 - 80.0 g/l ARRISTAN CPU  
10.0 - 20.0 g/l POLYAVIN PEN  
5.0 - 20.0 g/l TUBINGAL RNJ optional

pH Value: 5.5  
Liquor pick-up: approx. 70 - 80 %  
Drying: 100 - 130 °C

#### ARRISTAN CPU as functional finish "Moisture Management Finish"

##### Padding procedure

30.0 - 40.0 g/l ARRISTAN CPU  
20.0 - 40.0 g/l TUBINGAL HWS

pH Value: 5.5  
Liquor pick-up: approx. 70 - 80 %  
Drying: 100 - 130 °C

#### Exhaust method

3.0	-	5.0	%	ARRISTAN CPU
2.0	-	4.0	%	TUBINGAL HWS

pH Value:	5.5
Liquor pick-up:	1:5 – 1:20
Temperature:	40 – 60 °C
Time:	20 min
Drying:	100 - 130 °C

#### Bacteriostatic finish of e.g. sportswear

30.0	-	50.0	g/l	ARRISTAN CPU
0.5	-	3.0	g/l	iSys AG <sup>2)</sup>
20.0	-	30.0	g/l	TUBINGAL HWS

pH Value:	5.5
Liquor pick-up:	approx. 70 - 80 %
Drying:	100 - 130 °C

Due to the sensitivity to light, we recommend processing liquors containing iSys AG as soon as possible. Longer standing times are to be avoided.

- <sup>2)</sup> Observe the maximum application amount of 3.0 g/l iSys AG (related to 100 % liquor pick-up) An overdosage of iSys AG can impair the perspiration light fastnesses.  
Use biocides safely. Always read the label and product information before use.

\* To us formaldehyde-free means that all recipe components neither contain nor release formaldehyde during production or processing.

**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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