



**SEPARATION**

# **HIGHEST DEWATERING EFFICIENCY**

**ANDRITZ KUFFERATH HIGH-PERFORMANCE BELTS  
FOR ENVIRONMENTAL APPLICATIONS**

**ANDRITZ**

**ENGINEERED SUCCESS**





# Your full-service provider

With ANDRITZ, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Frautech, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, Lenser, Netzsch Filtration, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer, and Vandenbroek.

Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment, ANDRITZ is your true full-service provider. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase predictability in operations while raising your overall production efficiency. Wherever you operate, our network of 550 service specialists and global service centers ensures we'll always be there to support you for many life cycles to come. Let's sit down and see how we could take your operations to the next level.



#### LOCAL SUPPORT

Responsive local service centers and field service technicians



#### REPAIRS & UPGRADES

Optimization of machine and process performance, repair work, retrofitting, and modernization



#### SECOND-HAND & RENTALS

Certified second-hand and rental machines



#### TRAINING

Operator training and tailored seminars for operating and maintenance personnel



#### OEM SPARE PARTS

Filter cloths, spare and wear parts from OEMs or with OEM level quality, all readily available



#### SERVICE AGREEMENTS

Preventive maintenance, contracts for spare parts, maintenance, inspections, repairs, upgrades, operation, and equipment monitoring



#### PROCESS OPTIMIZATION

Automation tools and process expertise to boost your profit



#### LAB AND ON-SITE TESTS

Lab and testing capabilities for process optimization and machine upgrades



# Efficient dewatering and full use of machine capacity

ANDRITZ is home to OEMs supplying dewatering machinery like belt presses, gravity belt tables, and vacuum belt filters. One important criteria for the high performance of these machines is the dewatering belt. ANDRITZ can draw upon standard or specialized portfolios of woven and spiral-linked dewatering belts to meet every customer's need. Considerations like dewatering, particle retention, belt stability, cleanability, and wear resistance all play a vital role in belt selection. Belts from ANDRITZ Kufferath can meet all these challenges.

Standard belts for the dewatering of primary, biological, or mixed slurries from waste water treatment plants combine wear resistance with excellent dewatering capability and easy handling. Fine-mesh PET belts for vacuum belt filters (processing NaCl and KCl, for example) aim at maximum particle retention and dimensional stability, while belts for gravel and stone slurries or coal tailings add exceptional wear resistance. The range of woven belts is completed by spiral belts of different yarn diameters, with or without stuffers, providing seaming without thickening of the seam area. Depending on machine requirements, all belts can be fitted endless or with state-of-the-art seaming technology, ranging from corrosion-resistant clipper seams to spiral and pin seams. A selected number of designs are also available with our own ANDRITZ AutoLok seam for the ultimate in easy fitting.

ANDRITZ product specialists provide support in choosing the correct belt design for each application, achieving short lead times, as well as full service. If

needed, an analysis of the used belts can provide fine-tuning of the most suitable belt design as well as valuable insights into possible ways of optimizing the process.

## APPLICATION

ANDRITZ delivers special dewatering belts for all makes and models of belt presses, vacuum belt filters, and gravity belt tables.

## YOUR BENEFITS

- Efficient dewatering and full use of machine capacity
- Good cake release and belt cleanability
- Excellent price/performance ratio
- Increased machine availability due to quick and easy belt changes
- OEM quality from one single source



Gravity belt table

# Overview of standard belts for environmental applications

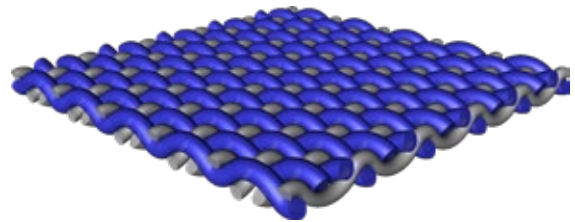
TecnoSludge C 16/05 – L03-1605-01

## KEY DATA

- 3-shaft 2/1 broken twill design
- Material: polyester and PETC
- Mesh count: 15.5 x 4.7/cm
- Machine direction diameter 0.65 mm
- Cross-machine direction diameter: 1.00 mm
- Air permeability: 490 cfm

## POSSIBLE SEAM SOLUTIONS

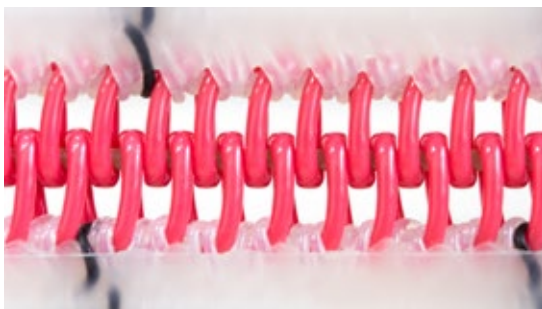
- Clipper
- Endless
- Spiral pin seam/AutoLok
- Single- and double-loop pin seam



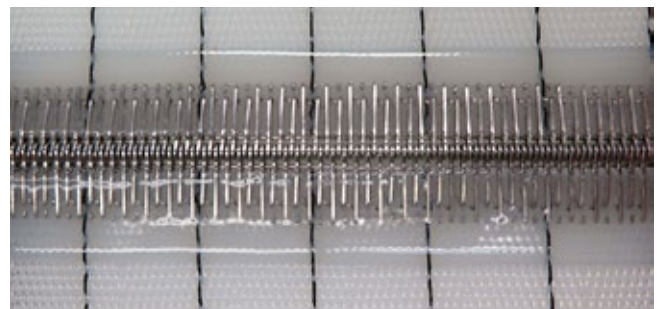
Versatile twill weave, machine direction conductive

## YOUR BENEFITS

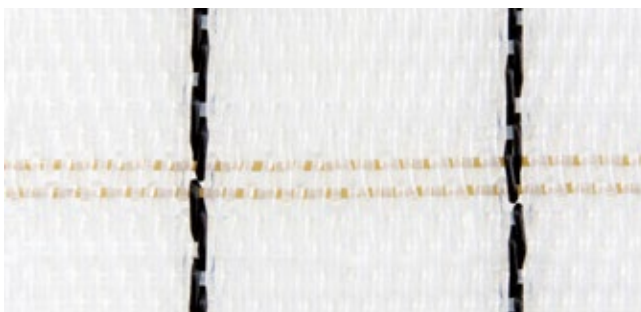
- State-of-the-art seaming technology covering a wide range of requirements – seaming pistol available
- Excellent air transfer or dewatering capacity
- Good particle retention or cake release
- ATEX conformity



JKA AutoLok spiral pin seam



SST clipper seam with protective coating



Double pin seam



Thermobonded edge





# TecnoSludge 16/05 – L03-1605-01

## KEY DATA

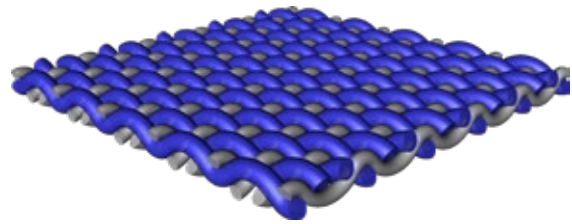
- 3-shaft 2/1 broken twill design
- Mesh count: 15.5 x 5.3/cm
- Material: Machine direction/cross-machine direction polyester
- Machine direction diameter: 0.70 mm
- Cross-machine direction diameter: 0.90 mm
- Air permeability: 404 cfm

## POSSIBLE SEAM SOLUTIONS

- Endless
- Clipper
- Single- and double-loop pin seam
- Spiral pin seam

## YOUR BENEFITS

- Good dewatering capacity
- Good cake release and fiber/particle retention
- Dimensionally stable



Universally applicable dewatering belt with smooth surface



TecnoSludge 16/05

# TecnoSludge C 22/04 – L05-2204-01

## KEY DATA

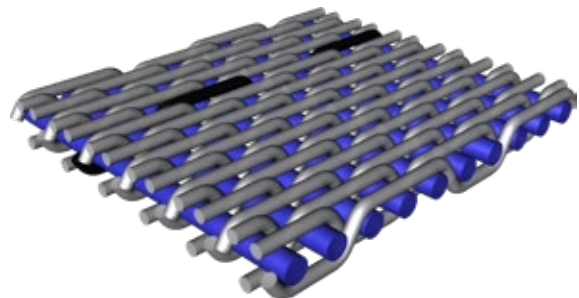
- 4-shaft 2/2 design
- Mesh count: 21.8 x 4.0/cm
- Material: polyester and PETC
- Machine direction diameter: 0.65 mm
- Cross-machine direction diameter: 0.9 mm
- Air permeability: 497 cfm

## POSSIBLE SEAM SOLUTIONS

- Endless
- Clipper seam
- Double-loop pin seam
- Spiral pin seam

## YOUR BENEFITS

- High particle retention, excellent formation and cake release
- Good air passage/dewatering capacity
- Excellent wear resistance due to 3/2 binding
- Less fiber plugging thanks to smooth belt surface



Fine-mesh formation/de-aeration/dewatering belt, machine direction conductive



TecnoSludge C 22/04

# TecnoSpiral 7 OF 950 – W07-1202-55

## KEY DATA

- Mesh count: 12x2/cm
- Material in machine direction: polyester spiral
- Material in cross-machine direction: polyester pin
- Machine direction yarn diameter: 0.68 mm
- Cross-machine direction pin diameter: 0.90 mm
- Air permeability: 950 cfm
- Open area: 49.6%

## POSSIBLE SEAM SOLUTIONS

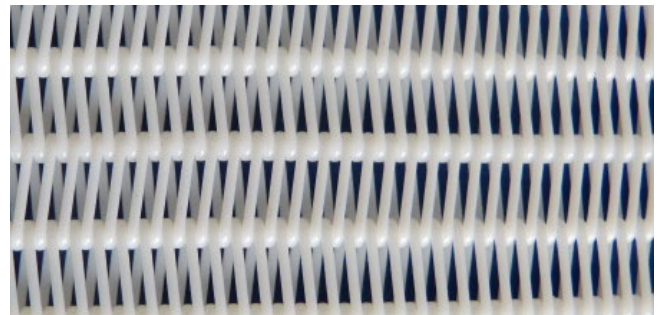
- Spiral pin seam



Universally applicable dewatering belt with smooth surface

## YOUR BENEFITS

- Easy and quick seaming
- Very high dewatering capability
- Smooth product side
- Seam caliper = fabric caliper



TecnoSpiral 7 OF 950

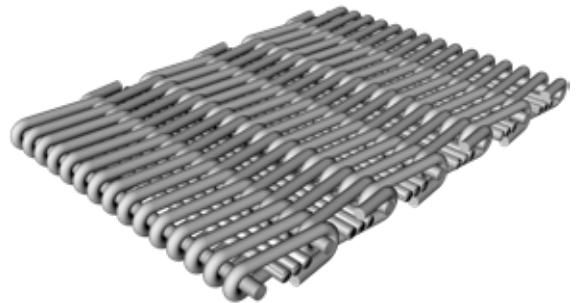
# TechnoSpiral 7 RPF 450 – W07-1205-55

## KEY DATA

- Mesh count: 12x5/cm
- Material in machine direction: polyester spiral
- Material in cross-machine direction: polyester pin
- Spiral filler yarn material: polyester
- Machine direction yarn diameter: 0.68 mm
- Cross-machine direction pin diameter: 0.90 mm
- Cross-machine direction filler yarn: 0.65 mm
- Air permeability: 450 cfm
- Open area: 49.6%

## POSSIBLE SEAM SOLUTIONS

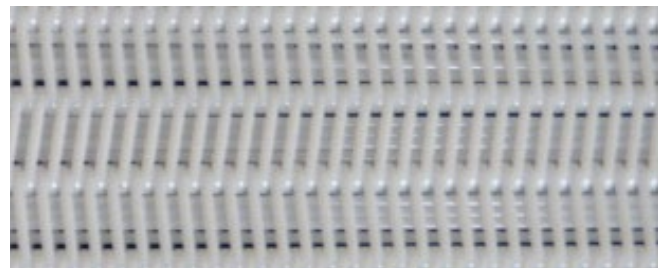
- Spiral pin seam



Standard spiral-linked belt with round filler yarns

## YOUR BENEFITS

- Easy and quick seaming
- Smooth product side
- Seam caliper = fabric caliper



TechnoSpiral 7 RPF 450

# Overview of all belts

## BELTS ACCORDING TO SLUDGE CHARACTERISTICS

	Filtration time	Cake release	Air permeability	Life time	Sticky sludge	Digested sludge	Primary sludge	Pre-dewatering and thickening	Version
<b>Woven belts</b>									
TecnoSludge C 16/05 - L03 - 1605-01	1	2	1	2	No	Up to 50% secondary content	Yes	Yes (priority fiber retention)	Basic
TecnoSludge 16/05 - L03 - 1605-01	2	2	3	2	No	Up to 50% secondary content	Yes		Economy
TecnoSludge C 22/04 - L05 - 2204-01	1	1	1	1	Yes	More than 50% secondary or 100% biological			Premium
<b>Spiral belts</b>									
TecnoSpiral 7 OF 950 - W07 - 1202-55	1	3	1	2	No			Yes (priority dewatering)	Basic
TechnoSpiral 7 RPF 450 - W07 - 1205-55	2	2	2	2	Yes	Yes	Yes	Yes	Basic

1 very good, 2 good, 3 sufficient, 4 poor, 5 very poor

## Options for all belt types

### EDGE CHOICES

- TB = simple THERMO-BONDED EDGE suitable for belts without specific edge wear
- PUR = a reliable 25 mm PLASTIC EDGE REINFORCEMENT for long belts and to avert edge wear

### COMFORT PACKAGE

Includes a leader cloth attached to the belt (tow belts on request) and self-adhesive Velcro fastenings for easy belt installation and seam joining.

An economy version without any auxiliaries is also available.



## WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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