

Anti static braid

Bekistat

1. High performance and cheaper than anti-static brush
2. Not excessively apply electric charge to the charged substance
3. Easy installation and easy maintenance
4. Chemically stable substance because of stainless-steel

Reasons of static discharge

Bekistat™ is braid by mixed spinning of 20% stainless-steel fiber and 80% polyester with high electricity discharging capability.
By corona-discharge effect of superfine stainless-steel fiber, it discharges static electricity safely and quickly.



< Measurement data of static elimination >

	surface potential
Before	-20~-25KV
After	-0.5~-3KV

Measurement condition

temperature: 15degrees Celsius humidity: 40%
weather: fair

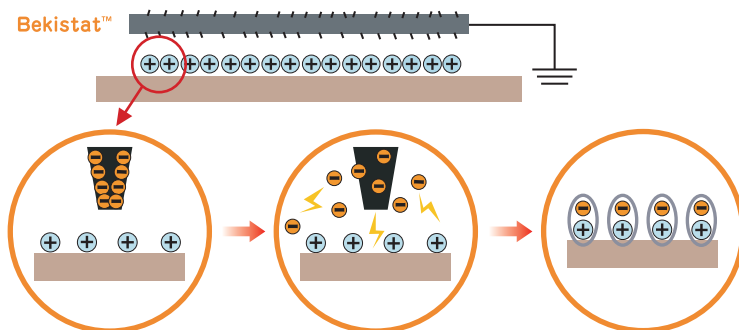
Device name :

Demonstration device of continuously-rotating film
Material of film : PET film
Film width : 300mm
Film thickness : 0.3mm
Film length : 3,200mm
Take-up rate : 45m/minute
Material of roller : iron(hard chrome plating)
Bekistat : BRD8(distance from the film : around 2cm)

Measuring method

A belt-like wrap film on 4 rollers (roller with onboard motor: 1roll, free rotation roller: 3rolls), rotates at a constant speed. The film is charged by detachment phenomenon.
At first, measure surface potential of the film before discharge. Next, measure surface potential of the discharged film which has passed under Bekistat.

Image of static discharge










※Energy of corona discharge is tiny(less or equal dozens mJ), but it could ignite in atmosphere of substance that has minute ignition energy.
(ex.hydrogen, acethylene)

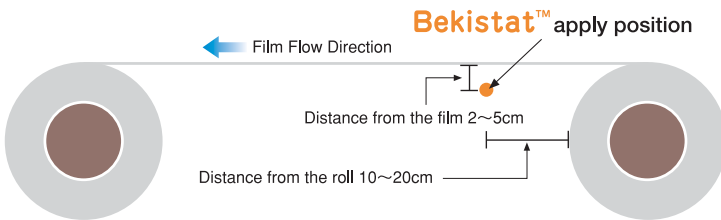
《Over 400 companies of printing plant, film production and processing plant, chemical and pharmaceutical plant have introduced "Bekistat™".》

Our company deals with various metal fiber products.

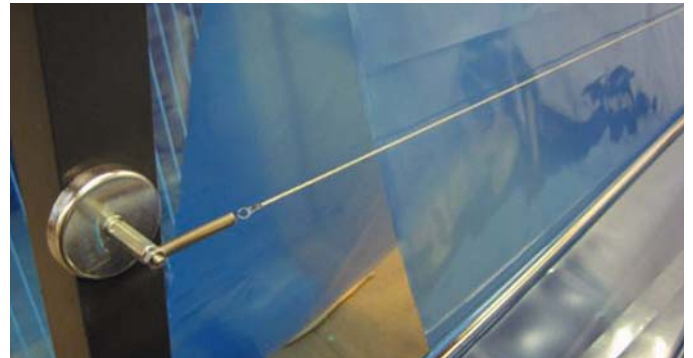
Specification and feature of each type

			
			
Type	BRD8	BRD8OR	TP1
Shapes	braid	braid	braid
Material	Polyester 80%	Polyester 80%	Polyester 80%
	stainless-steel 20%	stainless-steel 20%	stainless-steel 20%
Size (mm)	diameter1.6	diameter1.6	Width 4.0 Thickness 0.5
Tensile strength (N)	approx. 100	approx. 100	approx. 220
Electrical resistance * (Ω/m)	100~200	100~200	70~90
Length (m)	10	10	20
	100	100	

Bekistat™ Installation example



In the cases of electric charge that occurs when attached films peeled from each other (unrolling), apply Bekistat™ under the film right angled to the flow of the film. Ideal distance from the film is from 2 to 5cm and 10 to 20cm from the roll. Please set in the most suitable position at your plant. ※Please make sure to ground at one end for discharge.



Example of installation with magnet attachment

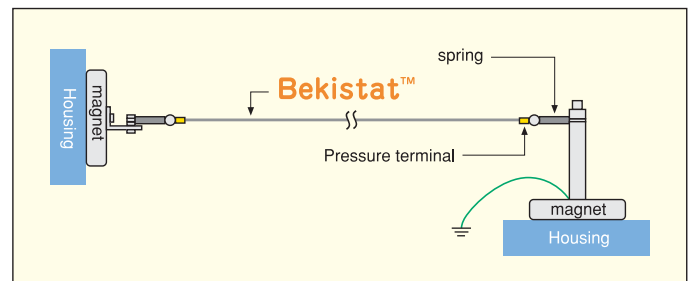
Magnet attachment parts



VTC with LW type



ATC with LW type



Combination use of vertical and Horizontal type

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