



# PULCRA@SPIN

## ODOUR CONTROL MASTERBATCH

## PULCRA@SPIN PP-705

**Pulcra Chemicals**  
*The solution specialist*

### ODOUR CONTROL MASTERBATCH

Pulcra@2spin PP-705 is a high concentrated solid masterbatch additive which reduces chemical malodour build-up based on sulfurs, amines, aldehydes and acids.

Pulcra@2spin PP-705 is added during extrusion, the active ingredient is locked into the fiber and will reduce malodours in different applications like hygiene, carpet, upholstery, apparel,...

The product may also have a positive effect on possible malodours present during production.

### HOW IT WORKS

The functional masterbatches need to be added during the extrusion process prior to the melting of the polymer by means of a dosing unit. The added masterbatches will have no negative effect on the extrusion process.

All our innovations are tested on the Spin Master, a semi- industrial extrusion and spinning line developed to facilitate and accelerate the transfer of technology from lab scale to industrial scale.

### PRODUCT FEATURES:

- High concentrated active
- The malodours are not masked, instead they are bound to the active ingredient by complexation.
- The active ingredient is locked in the fiber

### APPLICATIONS

Non-wovens; personal hygiene products, diapers, apparel, socks, carpets, upholstery, ...





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### TESTING

- ISO 17299
- PP – 7% Pulcra@2spin PP-705 addition
- Odour reduction in % towards a control
- NH3 : 100 ppm
- IVA : 90 ppm
- H2S : 10 ppm



### TEST METHOD

- ISO 17299-2/3
- Internal tests
- The vessel contains an (un)treated fabric
- The reference vessel contains no fabric
- (Non) contact method
- Leave in the oven for 2-3h @ 30°C
- Detect the amount of reduction via the detector tube method
- Compare
- Repeat the cycle

Odour component chemical	Minimum % of concentration reduction rate
Ammonia	70
Acetic acid	70
Isovaleric acid	85
Hydrogen sulfide	70
Methyl mercaptan	70
Indole	70
Nonenal	75

### TEST RESULTS

Percentage of odour reduction (%)

PP 5 DPF BCF	AMMONIA	H2S	ISOVALERIC ACID
without masterbatch	19%	19%	
with masterbatch (PP+ 7% Pulcra@2spin PP-705)	59%	100%	

PP 3 DPF	AMMONIA	H2S	ISOVALERIC ACID
without masterbatch	32%	6%	30%
with masterbatch (PP+ 7% Pulcra@2spin PP-705)	66%	100%	51%

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