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SMART CHEMISTRY  
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# TUBIWASH HLD-N

CLEANING ADDITIVE FOR PLASTIC RECYCLING

# HIGH EMULSIFYING PROPERTIES FOR CLEAN PLASTIC FLAKES

The new cleaning additive **TUBIWASH HLD-N** gives a nice flakes appearance and fulfils the increasing quality requirements in the plastic recycling industry.

## Special properties:

- ▶ Outstanding cleaning effect
- ▶ Low foaming tendency
- ▶ Efficient at low application amounts
- ▶ Suitable for all temperatures
- ▶ Alkaline stability
- ▶ Easy dosable
- ▶ Storage stability

## Application amounts

<b>TUBIWASH HLD-N</b>	<b>0.5 – 1.5 l/to flakes</b>
Caustic soda	25 – 85 mS/cm
Temperature	55 – 85 °C

## Glue removal

An effective glue removal is very important when cleaning PET flakes as it can cause a yellowing of the flakes after a thermal treatment.

After roasting (30 min at 220 °C) Flakes washed at 70 °C with

1% NaOH

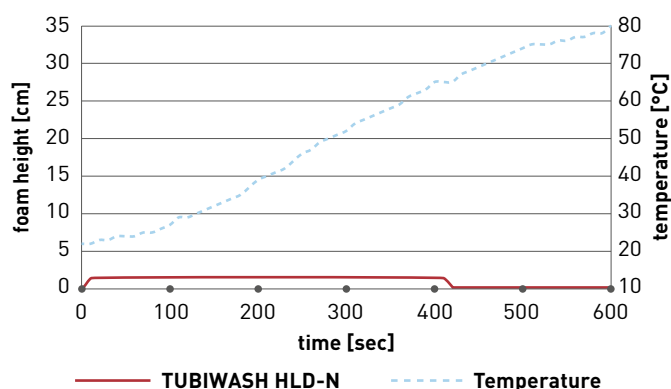


1% NaOH +  
**TUBIWASH HLD-N (5 g/l)**



## Foam diagram of TUBIWASH HLD-N

liquor: 2 g/l TUBIWASH HLD-N, 3 °dH, air flow: 300 l/min



## Oil emulsifying

Bottles can contain oily substances. If it is not emulsified properly, it can deposit on the PET flakes.

Oil is coloured with red dyestuff

without product



*Oil phase on the surface*

**TUBIWASH HLD-N**



*Stable emulsion*