



# DETACK

*Delivering Prime Polymer*

**NALCO** Water  
An Ecolab Company

# Maintain Free-Flowing Polymer with DETACK

Prime polymer is uniform in size, free of fines or cross-contamination and flows smoothly throughout storage and transportation. Meeting these expectations is becoming more challenging as the marketplace demand is trending toward low density, low crystallinity, high melt flow index and high co-monomer content plastics. Sticky grades can tax your ingenuity to manufacture and supply as prime product.

Nalco Water's DETACK for Polymers is revolutionizing plastics manufacturing and compounding. Through a chemical treatment program - no equipment modifications, no capital investment - many of the problems associated with sticky polymers are solved.

## New Solutions for Polymer Producers

DETTACK improves operational flexibility, and the program can be tailored to each grade produced. Since DETACK is added after the reactors, it does not affect polymer structure. At typical treatment dosages, it does not have any known negative impact on final plastic properties.

Nalco Water's DETACK is compliant with customer requirements for a wide range of end-use applications, providing choices for meeting health, safety, and performance criteria as varied as your customer base.

## Manufacturers and Compounders

DETTACK has been used in manufacturing plants and compounding units for decades. The reach of DETACK continues to expand into different types of polymers, including:

### Polyethylene

- HDPE
- LDPE
- LLDPE
- EVA
- Elastomer

### Polystyrene

- GPPS
- EPS
- ABS
- SAN
- Elastomer

### Polypropylene

- TPO
- Cracked



# DETACK Provides Solutions for:

Manufacturing	Product Quality
Twins, Triplets	Sticking, Clusters
Snakeskin	Agglomeration, blocking
Wet Pellets	Fines, Dust
Streamers, Flossing	Odor
Devolatilization	Moisture
Production Rates	Static
Heat Exchanger Fouling	Bulk Density
Inadequate Cooling	Irregular Shape and Size
Blockages	Poor Physical Properties

DETACK is compatible with:



Food-Contact



Packaging



Adhesives



Construction



Automotive



Pharmaceutical

## TWINS AND CLUSTERS

Product losses reduced  
by **100%** (from 50% to 0%)

## DUST AND FINES

Reduced dust content  
up to **40%**

## HEAT EXCHANGER FOULING

Runlengths increased  
by **>250%**

## INSUFFICIENT COOLING

Pellet water temperature  
increased up to **50°F/28°C**

## STREAMERS AND FINES

Reduction of streamers  
up to **95-100%**

## FREE-FLOWING PELLETS

Packaged bulk density improved  
by **15%+**

## MOISTURE REDUCTION

Up to **60%**  
moisture content reduction

## DEVOLATILIZATION AND ODOR

Silo storage times reduced  
by **50%**

**BENEFITS  
OF  
DETACK**

## Safety, Health, & Environment

DETACK chemistries are non-toxic and FDA approved, and Kosher-certified products are available where requested. The DETACK program has passed regulatory and classification requirements around the globe, and can be implemented without altering your current wastewater handling and treatment procedures. DETACK is also compatible with outfall to public waters and deep-well injection. Contact your local Nalco Water representative for more details.

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***Nalco Water, an Ecolab Company is the global leader in refining process treatments, fuel additives, petrochemical process and water treatments.***

We solve our customers' toughest process and water challenges so they can sustainably, reliably and profitably refine fuels and process petrochemicals. Our proven chemistry, digital technologies and personable service increase plant availability and the useful life of assets, delivering higher product quality and yields. Our solutions come from teamwork - the interplay of considerable expertise, firsthand experience and innovative research. We establish true collaboration with our customers to compound our collective knowledge and deploy innovations that measurably improve efficiency and profitability. We do more than meet the demands of refining and petrochemical operations. Together, we create value.

Visit [ecolab.com/nalco-water](http://ecolab.com/nalco-water) to learn more.

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