

- **LOW FOAMING WETTING CUM DISPERSING AGENT**
- **MOLECULAR DEFOAMERS**
- **SUPER WETTERS**





Star-polymer is a 3D structure, containing hydrophilic as well as hydrophobic elements.

TRIOSTAR molecule defoams on molecular level. It acts as a unique surfactant interacting with the foam stabilizing surfactants and destabilizes the foam bubbles.

The core product of this line has a unique chemical structure that provides multifunctional properties such as surface tension reduction and foam control. Also depending upon the formulation, it can offer a combination of benefits which includes wetting, dispersing and defoaming with negligible effect on water dispersibility.

### **Advantage of TRIOSTAR series**

- Multifunctional (Defoaming and wetting)
- Improved Bubble-Break Time Compared to Conventional Defoamers
- Excellent Defoaming Persistence
- Effective Against Microfoam
- Easy to Incorporate

### **Example and Application of TRIOSTAR series:**

- High Gloss Paints and Coatings
- Flat to Semi-Gloss Paints And Coatings
- Industrial Water Based Coatings
- Printing Field Applications
- Water Based & Solvent Based Adhesives

# PRODUCT OVERVIEW

## 1.ANTI WEBBING

TRIOSTAR 575  
TRIOSTAR AW 642 LV

## 3.MOLECULAR DEFOAMER

TRIOSTAR 5815  
TRIOSTAR 5235  
TRIOSTAR 578 T

## 5.SILICONE BASED DEFOAMER

TRIOSTAR DF 595  
TRIOSTAR DF 5022

## 7.WETTING AGENT & MOLECULAR DEFOAMERS

TRIOSTAR 5145 BL  
TRIOSTAR 5024  
TRIOSTAR 5145 GP  
TRIOSTAR 5145 A  
TRIOSTAR 5145 BC  
TRIOSTAR 5145 DPM  
TRIOSTAR 5145 E  
TRIOSTAR 5145 H  
\*TRIOSTAR 5145 S

## 2.LOW FOAMING WETTING AGENT

TRIOSTAR 5044  
TRIOSTAR 5564  
TRIOSTAR 5584  
TRIOSTAR 5584 W

## 4.PIGMENT DISPERSANT AND WETTING AGENT

TRIOSTAR 5333  
TRIOSTAR 5833  
TRIOSTAR 5631 CT

## 6.PIGMENT GRIND AID & WETTING AGENT

TRIOSTAR 5633  
TRIOSTAR 5121 CT  
TRIOSTAR 5091  
TRIOSTAR 5133

## 8.SUPER WETTER

TRIOSTAR 5023 S  
TRIOSTAR 5043



# PRODUCT-AT-A-GLANCE

## 1.ANTI WEBBING

### TRIOSTAR 575

- It possess Anti-Webbing, Break foam and reduce dynamic surface tension
- Specific for Water-based systems, Latex dipping process, Flexo-and gravure inks, Metal working lubricants, Water-based adhesives and Waterborne coatings
- Improve wetting of various substrates and pigments also excellent flow, levelling and gloss.

### TRIOSTAR AW 642 LV

- TRIOBAN AW 642 serves as an emulsifiable defoamer and anti-webbing agent
- Utilized in emulsion paints and waterborne coatings, synthetic lattices like polyvinyl acetate, vinyl, acrylic emulsion, and natural latex are commonly employed.



## 2.LOW FOAMING WETTING AGENT

### TRIOSTAR 5044

- Ethoxylated wetting agent & Molecular Defoamer (100% active liq).
- Improves handling in Waterborne coatings, inks, & adhesives systems.
- Insoluble in water
- Solvent & APEO free..

### TRIOSTAR 5564

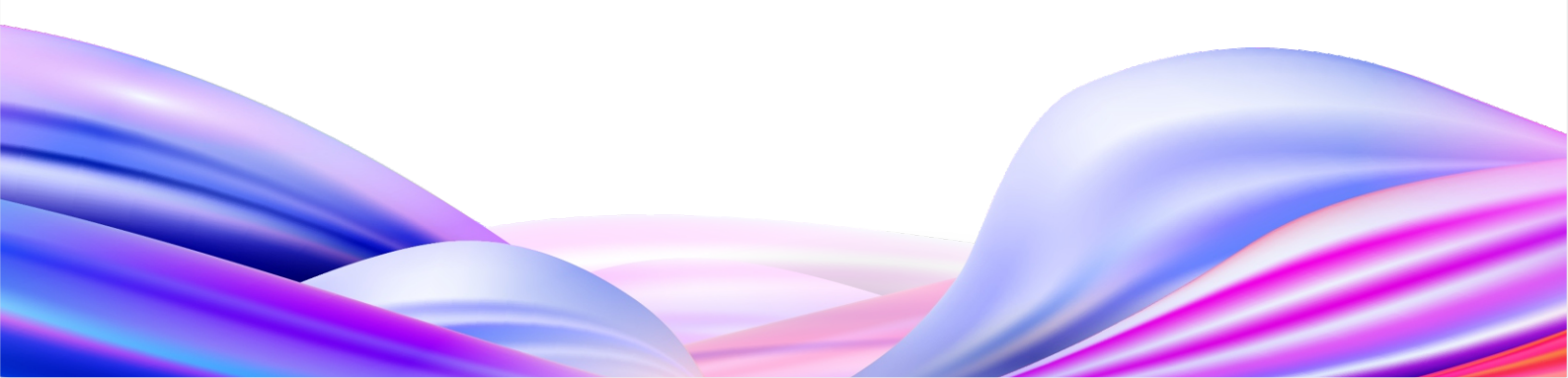
- Ethoxylated low- foam wetting agent (100% active liq).
- Provides low foam surface tension reduction with Improved solubility & compatibility in water borne coatings, inks, & adhesives system.
- Water Soluble
- Solvent & APEO free..

### TRIOSTAR 5584

- Ethoxylated low- foam wetting agent (100% active liq).
- Provides low foam surface tension reduction with Improved solubility & compatibility in water borne coatings, inks, & adhesives system.
- Water Soluble
- Solvent & APEO free..

### TRIOSTAR 5584 W

- Ethoxylated low- foam wetting agent (75% active liq).
- Low foam surface tension reduction with slight emulsification properties,
- Improved solubility & compatibility in water borne coatings, inks, & adhesives system.
- APEO free.



## 3.MOLECULAR DEFOAMER

### TRIOSTAR 5815

- Nonionic, organic molecular defoamer (20% active liquid in polyethylene glycol).
- Provides defoaming & de-airentaining in aqueous systems without the side effects typical of many traditional foam control agents. Benefits includes: micro foam elimination, long lasting foam control, defect- free foam control & good dynamic wetting.
- APEPO free.

### TRIOSTAR 5235

- Nonionic, organic molecular Defoamer (32% active liquid in Dipropylene Glycol).
- Acetylenic Diol-Based
- Provides defoaming & de-aeration in aqueous systems.
- No side effects typical of many traditional foam control agents.
- Prevent Micro- Foams.
- Persistent & Defect – Free foam Control.
- Good Dynamic wetting.
- APEO-Free

### TRIOSTAR 578 T

- TRIOSTAR 578 T breaks the bubbles and micro bubbles and possess outstanding, long lasting foam control properties
- It is silicone, Oil and APEO-free.
- It is used for IPA Replacing, reducing fountain solutions and as a coating agent for PS substrates



## 4. PIGMENT DISPERSANT AND WETTING AGENT

### TRIOSTAR 5333

- Anionic / Non-Ionic pigment dispersant and wetting Agent (52% active solution in water)
- Provide excellent milling, stabilization, & viscosity benefits in the dispersion of a wide range of organic, inorganic, and carbon black pigment chemistries in aqueous system.
- Solvent free version Additive

### TRIOSTAR 5833

- Anionic / Non-Ionic pigment dispersant and wetting Agent (38% active solution in water).
- Provide excellent milling, stabilization, & viscosity benefits in the dispersion of a wide range of organic, inorganic, and carbon black pigment chemistries in aqueous system.
- Offers exceptional viscosity stability in the metallic pigments.

### TRIOSTAR 5631 CT

- Anionic / Non-ionic pigment dispersant & wetting agent (46% active solution in water).
- It is a proprietary formulation of surface active & polymeric chemistries.
- Provides excellent milling, stabilization, and viscosity benefits in the dispersion of wide range of inorganic, carbon black pigment chemistries in aqueous system
- APEO Free.



## 5. PIGMENT GRIND AID & WETTING AGENT

### TRIOSTAR 5633

- Non-Ionic Pigment grind aid & wetting agent (70% active solution in water & ethylene glycol)
- It is additive designed for Pigmented systems.
- Provides low foam pigment & substrate wetting significantly improves the milling process & pigment color development when used with series or grind resins in aqueous dispersions and other aqueous systems.

### TRIOSTAR 5121 CT

- Non-ionic pigment grinding aid & wetting agent (70% active liq in water).
- Designed for pigmented Systems that provides Low foam Pigments & Substrate Wetting.
- Significantly improve the milling process & pigment color development when used with dispersants or grind resins in aqueous dispersions & other Aqueous Systems.
- APEO Free.

### TRIOSTAR 5091

- Non- Ionic pigment grind aid & wetting agent (83% active solution in water & ethylene glycol)
- It is a proprietary additive designed for pigment systems that provides low foam pigment & substrate wetting & can significantly improve the milling process and pigment color development when used with dispersants or grind resins in aqueous dispersions and other aqueous systems.

### TRIOSTAR 5133

- TRIOSTAR 5133 is highly suitable for addition to the grind stage.
- Can be used for formula with resin
- It possess excellent dynamic surface tension reduction properties
- Core applications are: Basecoat paste, Water-based inks, Water-based architectural coatings, Oleophilic pigments.





## 6. PIGMENT GRIND AID & WETTING AGENT

### TRIOSTAR DF 595

- Silicone Based defoamer (100% active Liquid).
- A proprietary formulation that provides strong foam control & de-aeration performance in aqueous formulations.

### TRIOSTAR DF 5022

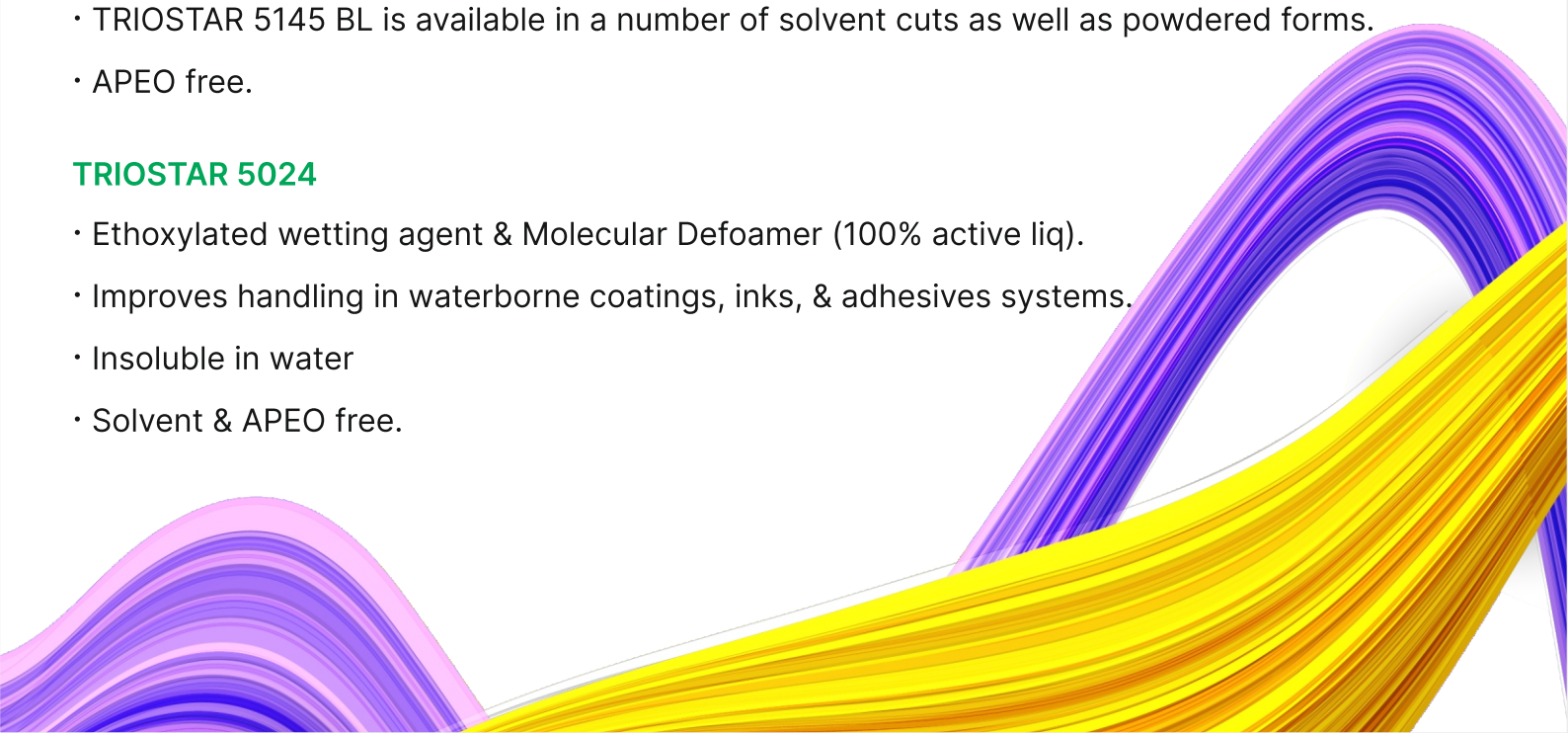
- TRIOSTAR DF 5022 is a versatile agent used for defoaming and deaeration in various water-based applications like adhesives, coatings, inks, paper, latex products, and cooling lubricants.
- Eliminates micro-foam & excellent storage stability.
- TRIOSTAR DF 5022 can be used to gloss the oil emulsions, water-borne packaging adhesives and synthesis/semi-synthesis metal working fluids.

## 7. WETTING AGENT & MOLECULAR DEFOAMERS

### TRIOSTAR 5145 BL

- A nonionic wetting agent and molecular defoamer (100% active waxy solid)  
It is an acetylenic diol-based surface-active agent.
- Provides Dynamic wetting & defoaming in water borne coatings, inks, & adhesives system.
- TRIOSTAR 5145 BL is available in a number of solvent cuts as well as powdered forms.
- APEO free.

### TRIOSTAR 5024

- Ethoxylated wetting agent & Molecular Defoamer (100% active liq).
  - Improves handling in waterborne coatings, inks, & adhesives systems.
  - Insoluble in water
  - Solvent & APEO free.
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### **TRIOSTAR 5145 GP**

- TRIOSTAR 5145 GP is nonionic acetylenic diol surfactant
- It is silicone-free, APEO free & non-toxic Molecular defoamer with wetting agent properties
- It can be used for Water-based systems such as Water-based printing inks, Water-based flexo, gravure & fountain solutions.

### **TRIOSTAR 5145 A**

- TRIOSTAR 5145 A is a wetting agent & molecular defoamers
- Specifically for Water-based systems such as Water-based printing inks, Water-based flexo, gravure & fountain solutions.
- It is silicone-free, APEO free & non-toxic in nature.

### **TRIOSTAR 5145 BC**

- TRIOSTAR 5145 BC improves wetting of various substrates and pigments
- Particularly used for Water-based systems such as Water-based printing inks, Water-based flexo, gravure & fountain solutions.
- It is silicone-free, APEO free & non-toxic in nature.


### **TRIOSTAR 5145 DPM**

- TRIOSTAR 5145 DPM has the properties to control foam, low equilibrium & dynamic surface tension.
- Specifically it is for Water-based printing inks, Water-based flexo, gravure & fountain solutions & water-borne coatings.

### **TRIOSTAR 5145 H**

- TRIOSTAR 5145 H possess foam control properties with low equilibrium and dynamic surface tension.
- It can be used for water-based systems such as Water-based printing inks, Water-based flexo, gravure & fountain solutions.
- It is silicone-free, APEO free & non-toxic in nature.

### **\*TRIOSTAR 5145 S**

- TRIOSTAR 5145 S is a powdered formulation on an inorganic carrier
  - Specifically for powder coatings and non-solvent systems
  - TRIOSTAR 5145 S improves wetting of various substrates and pigments
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## 8.SUPER WETTER

### TRIOSTAR 5023 S

- High performance, nonionic super wetter (100% active liq)
- It is a surfactant base on patented ethoxylated, acetylenic diol surface active chemistry.
- Provides extremely low dynamic & equilibrium surface tension with low foam in a variety of demanding waterborne applications.
- Its solvent & APE free organic chemistry makes it a performance alternative to silicone and fluoro-surfactants.

### TRIOSTAR 5043

- High performance, nonionic super wetter (100% active liq)
- Based on ethoxylated acetylenic diol exhibits extremely low dynamic
- Provides extremely low dynamic & equilibrium surface tension with low foam in a variety of demanding waterborne applications.
- Its solvent & APE free organic chemistry makes it a performance alternative to silicone and fluoro-surfactants.

### TRIOSTAR DF 5022

- TRIOSTAR DF 5022 is a versatile agent used for defoaming and deaeration in various water-based applications like adhesives, coatings, inks, paper, latex products, and cooling lubricants.
- Eliminates micro-foam & excellent storage stability.
- TRIOSTAR DF 5022 can be used to gloss the oil emulsions, water-borne packaging adhesives and synthesis/semi-synthesis metal working fluids.





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