Specialty Additives product selection guide

Solutions that add real value to your systems
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We take a holistic approach to improving our clients’ competitive advantage . . .

we offer solutions, not just products.
About us

Committed to providing unmatched performance

Air Products seeks at all times to maintain its reputation as a leading supplier of exceptional specialty additives throughout the world. We do this through continual investment in product development and pace setting technology, as well as by anticipating the needs of our customers and offering innovative solutions – sometimes even in advance of our customers’ anticipated requirements.

Over 40 years ago, we recognized the inevitable shift from solvent to water-based systems and helped guide formulators through the challenges of making the transition. From a small number of Surfynol surfactant products, we have applied our surface science knowledge to help create what is today recognized as an exceptional product portfolio. We continually strive to be the global supplier of choice of specialty additives, supplying, within a broad range of applications and markets, customers who value high performance solutions.

A winning team

Additives may be able to help you solve formulating challenges – but it’s the people behind the products that really make a difference. For decades, our chemists have been studying the unique challenges faced by the formulators of water-based systems. With their support, our goal is to help you achieve your goal of creating successful products. From product development to applications testing to technical service, we can help you put it all together by teaming the best products with an unparalleled applications development team. From ideas to finished products, our team can help you develop products, solve problems and grow your business.
Offering you solutions, not just products

Air Products’ families of Surfy®nol, Dynol™, Airase®, ZetaSperse® and Carbowet® additives are widely used in countless industries, including coatings, inks, adhesives, metalworking and construction. Our continued commitment to developing new and beneficial surfactant technology promises to be an answer to ongoing challenges facing formulators. We are constantly working to provide unique products and performance solutions for a broad range of applications.

Dy-nol superwetters For your most demanding applications – we think these superwetting surfactants are second to none.

Surfy®nol multifunctional additives A top performing range of multifunctional surfactants and defoamers. Our broad product line includes low foam dynamic wetting agents, unique molecular defoamers, as well as specialty surfactants designed for specific end-use applications.

Airase defoamers and deaerators A complete line of defoamers and deaerators for waterborne applications, each formulated to provide the optimum of defoaming and compatibility in a given system. The product line includes our unique defoamers and deaerators as well as our innovative Structured Siloxane Defoamer Line (SSDL™ defoamers), a line of defoamers designed to provide predictable performance relative to each other.

ZetaSperse dispersants A dedicated line of products that address unique challenges of dispersing pigments and other particles efficiently and effectively.

Carbowet surfactants Perfect for applications where you need wetting and surface reduction with varying degrees of emulsification and stabilization.
We’re dedicated to anticipating customer requirements and to helping our customers develop their business . . .
## Product overview

Some products are not available in all regions. Please check with your local office.

<table>
<thead>
<tr>
<th>Defoamers and deaerators</th>
<th>Surfactants</th>
<th>Dispersants</th>
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* This product is available in different forms.
# Additives for coatings and paints

- **Airase® 5100**
- **Airase 5200**
- **Airase 5300**
- **Airase 4500**
- **Airase 5400**
- **Surfy nol® DF-220**
- **Surfy nol DF-58**
- **Airase 8070**
- **Surfy nol DF-37**
- **Airase 5500**
- **Surfy nol DF-62**
- **Surfy nol DF-66**
- **Airase 5600**
- **Surfy nol DF-178**
- **Airase 5700**
- **Surfy nol DF-110**
- **Surfy nol AD01**
- **Surfy nol MD-20**
- **Surfy nol 104**
- **Surfy nol PC**
- **Surfy nol 500S**
- **Surfy nol MD-610S**
- **Dy nol™ 960**
- **Dy nol 980**
- **Dy nol 360**
- **Dy nol 800**
- **Dy nol 810**
- **Dy nol 607**
- **Surfy nol 420**
- **Surfy nol SE-F**
- **Surfy nol PSA336**
- **Surfy nol 440**
- **Surfy nol 2502**
- **Carbowet® 422**
- **Surfy nol 485**
- **Carbowet 106**
- **Carbowet 109**
- **Carbowet GA-100**
- **Carbowet GA-210**
- **Carbowet GA-211**
- **Carbowet GA-221**
- **ZetaSperse® 170**
- **ZetaSperse 179**
- **ZetaSperse 182**
- **ZetaSperse XXXX**

### Defoaming

- **Airase® 5100**
- **Airase 5200**
- **Airase 5300**
- **Airase 4500**
- **Airase 5400**
- **Surfy nol® DF-220**
- **Surfy nol DF-58**
- **Airase 8070**
- **Surfy nol DF-37**
- **Airase 5500**
- **Surfy nol DF-62**
- **Surfy nol DF-66**
- **Airase 5600**
- **Surfy nol DF-178**
- **Airase 5700**
- **Surfy nol DF-110**
- **Surfy nol AD01**
- **Surfy nol MD-20**
- **Surfy nol 104**
- **Surfy nol PC**
- **Surfy nol 500S**
- **Surfy nol MD-610S**

### Molecular defoamers

- **Dy nol™ 960**
- **Dy nol 980**
- **Dy nol 360**
- **Dy nol 800**
- **Dy nol 810**
- **Dy nol 607**
- **Surfy nol 420**
- **Surfy nol SE-F**
- **Surfy nol PSA336**
- **Surfy nol 440**
- **Surfy nol 2502**
- **Carbowet® 422**
- **Surfy nol 485**

### Wetting

- **Dy nol™ 960**
- **Dy nol 980**
- **Dy nol 360**
- **Dy nol 800**
- **Dy nol 810**
- **Dy nol 607**
- **Surfy nol 420**
- **Surfy nol SE-F**
- **Surfy nol PSA336**
- **Surfy nol 440**
- **Surfy nol 2502**
- **Carbowet® 422**
- **Surfy nol 485**

### Stabilizing

- **Carbowet 106**
- **Carbowet 109**
- **Carbowet GA-100**
- **Carbowet GA-210**
- **Carbowet GA-211**
- **Carbowet GA-221**
- **ZetaSperse® 170**
- **ZetaSperse 179**
- **ZetaSperse 182**
- **ZetaSperse XXXX**

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** For specific pigment dispersant recommendations, use the FAZT tool at FAZT.com or contact Air Products.

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Additives for inks and graphic arts

<table>
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<th>Secondary options</th>
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# Additives for adhesives and latex dipping

- **Top recommendations**
- **Secondary options**

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We are committed to providing products and solutions that offer unmatched performance gains . . .
Complete product offering

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Surfy\nol multifunctional additives

**Surfy\nol AD01**
A nonionic wetting agent, molecular defoamer and coalescing surfactant (100% active liquid). Surfy\nol AD01 surfactant is a patented alkane diol surface active agent that provides defoaming, dynamic wetting, and coalescing benefits in waterborne coatings, inks, and adhesives systems. No added solvents or APEs.

**Surfy\nol 2502**
An alkoxylated low-foam wetting agent (100% active liquid). Surfy\nol 2502 surfactant is based on patented alkoxylated acetylenic diol surface active chemistry. Provides ideal balance of dynamic surface tension reduction and system compatibility with very low foam in waterborne coatings, inks, and adhesives systems. FDA clearances, no added solvents or APEs.

**Surfy\nol 420**
Surfy\nol 420 surfactant performs as a dynamic wetting agent and molecular defoamer in a wide variety of applications, including waterborne coatings, inks, adhesives, agricultural chemicals, and numerous industrial specialty applications. It is a 100% active, easy-to-handle liquid that contains no added alkylphenol ethoxylates (APEs) or hazardous air pollutants (HAPs). Surfy\nol 420 surfactant complies with several regulations needed for applications requiring food contact compliances in the U.S., Europe and Asia, as well as EPA compliances needed for use in agricultural chemical applications.

**Surfy\nol 440**
An ethoxylated low-foam wetting agent (100% active liquid). Surfy\nol 440 surfactant provides low foam dynamic and equilibrium surface tension reduction with improved dispersibility and ease of incorporation in waterborne coatings, inks, and adhesives systems. FDA and EPA clearances, no added solvents or APEs.

**Surfy\nol 465**
An ethoxylated low-foam wetting agent (100% active liquid). Surfy\nol 465 surfactant is an ethoxylated acetylenic diol that provides low foam surface tension reduction with improved solubility and compatibility in waterborne coatings, inks, and adhesives systems. FDA and EPA clearances, no added solvents or APEs.

**Surfy\nol 485**
An ethoxylated low-foam wetting agent (100% active liquid/semi-solid). Provides low-foam surface tension reduction with slight emulsification properties, improved solubility and compatibility in waterborne coatings, inks, and adhesives systems. FDA and EPA clearances, no added solvents or APEs.

**Surfy\nol 485W**
An ethoxylated low-foam wetting agent (75% active solution in water). Provides low-foam surface tension reduction with slight emulsification properties and improved solubility and compatibility in waterborne coatings, inks, and adhesives systems. FDA and EPA clearances, no added solvents or APEs.

**Surfy\nol 500S**
A powdered nonionic wetting agent and molecular defoamer. Surfy\nol 500S surfactant is a powdered preparation that provides rapid wetting of solid particles, fillers, pigments, and fibers; fast mixing and enhanced workability of cementious systems. FDA clearances, no added APEs.

**Surfy\nol 61**
A volatile wetting agent (100% active liquid). Surfy\nol 61 surfactant is a multifunctional surface active agent based on acetylenic chemistry that provides substrate wetting in systems where surfactant residues or contamination are undesirable, such as silicon wafer or glass cleaning. The properties of Surfy\nol 61 allow it to completely evaporate under normal use conditions in variety of aqueous systems. No added solvents or APEs.

**Surfy\nol 82**
A nonionic surfactant (100% active solid) Surfy\nol 82 offers excellent non-foaming wetting in aqueous systems and is strongly synergistic with other surface active agents. It can be volatized without degrading when heated to its boiling point of 221 Celsius. EPA and FDA clearances, no added APEs.
Surfy-nol DF-110C
A nonionic, organic molecular defoamer. Surfy-nol DF-110C defoamer is an acetylenic diol-based product that provides defoaming and de-airentraining in aqueous systems without the side effects typical of many traditional foam control agents. Benefits include: microfoam elimination, long-lasting foam control, defect-free foam control, and good dynamic wetting. No added APEs.

Surfy-nol DF-110D
A nonionic, organic molecular defoamer. Surfy-nol DF-110D defoamer is an acetylenic diol-based product that provides defoaming and de-airentraining in aqueous systems without the side effects typical of many traditional foam control agents. Provides microfoam elimination, long-lasting foam control, defect-free foam control, and good dynamic wetting. No added APEs.

Surfy-nol DF-110L
A nonionic, organic molecular defoamer. Surfy-nol DF-110L defoamer is an acetylenic diol-based product that provides defoaming and de-airentraining in aqueous systems without the side effects typical of many traditional foam control agents. Benefits include: microfoam elimination, long-lasting foam control, defect-free foam control, and good dynamic wetting. No added APEs.

Surfy-nol DF-178
A formulated siloxane-based defoamer and de-aerator (100% active liquid). Surfy-nol DF-178 defoamer was developed specifically for applications in waterborne coatings and graphic arts that demand both powerful defoaming and defect-free surfaces. Provides strong defoaming and microfoam control and is particularly effective in spray applications. No added APEs

Surfy-nol DF-37
A nonionic, organic defoamer (100% active liquid). Surfy-nol DF-37 defoamer is a proprietary acetylenic-based additive that provides foam control and surface wetting in water-based formulations. FDA compliance. No added APEs.

Surfy-nol DF-58
A siloxane-based defoamer (100% active liquid). Surfy-nol DF-58 defoamer is a proprietary formulation that provides strong foam control and de-aeration performance in water-based formulations. No added APEs.

Surfy-nol DF-62
An ether-modified polysiloxane defoamer (100% active liquid). Surfy-nol DF-62 defoamer is a proprietary formulation that provides excellent balance of initial foam knockdown and sustained antifoaming over time in water-based formulations. No added APEs.

Surfy-nol DF-66
A modified polysiloxane based defoamer. Surfy-nol DF-66 defoamer is a proprietary formulation that provides excellent balance of initial foam knockdown and sustained antifoaming over time in water-based formulations. FDA compliances, no added APEs.

Surfy-nol DF-695
A silicone emulsion defoamer. Surfy-nol DF-695 defoamer is a proprietary emulsified silicone additive. Provides initial and sustained defoaming performance in water-based formulations. FDA compliances, no added APEs.

Surfy-nol DF-220
An organic defoamer (100% active liquid). Surfy-nol DF-220 defoamer is a proprietary, non-silicone additive that provides rapid and sustained defoaming in water-based printing inks, coatings and adhesives systems. Surfy-nol DF-220 defoamer is ideally suited for architectural and medium- to high-PVC systems. No added APEs.

Surfy-nol FS-85
An anionic/nonionic wetting agent. Surfy-nol FS-85 surfactant is a proprietary additive designed for use in lithographic fountain solutions. Provides important wetting and emulsification properties, allowing the elimination of solvents and other undesirable additives from fountain solution formulations. No added APEs.

Surfy-nol MD-20
A nonionic, organic defoaming/de-aerating wetting agent (100% active liquid). Surfy-nol MD-20 molecular defoamer is based on proprietary modified acetylenic diol chemistry. Provides foam control and reduces microfoam without any of the incompatibilities or other issues associated with silicone or mineral oil defoamers. No added APEs.

Surfy-nol MD-610S
A highly effective powder defoamer designed to eliminate air entrainment in cementitious based products for the construction industry. The unique chemistry of Surfy-nol MD-610S defoamer combines the benefits of fast-acting defoaming with long lasting deaeration at a molecular level. Surfy-nol MD-610S defoamer enables the fast escape of entrapped air while incorporating water and during mixing. The resulting cementitious compositions exhibit enhanced flow, excellent self-leveling, reduced air content and a smooth and defect-free hardened surface. Surfy-nol MD-610S defoamer is universally applicable for use in both neutral and alkaline systems.
We take a responsible lead in offering additives that perform to the highest environmental standards . . .
Surfy®nol OP-340
An anionic/nonionic wetting agent. Surfy®nol OP-340 wetting agent is a proprietary additive designed specifically for use in waterborne overprint varnish systems. Helps eliminate surface tension related issues like poor wetting, retraction, surface defects, or orange peel over both wet and dry lithographic inks. FDA compliances. No added APEs.

Surfy®nol PC
A molecular defoamer. Surfy®nol PC defoamer is a proprietary formulation designed specifically to provide foam control and pigment shock reduction in paper coating formulations. Provides long-lasting defoamer activity. Stable through continued recycling of the formulation. No added APEs.

Surfy®nol PSA336
A formulated wetting agent. Surfy®nol PSA336 surfactant is based on a proprietary combination of surface active chemistries. Provides very low dynamic surface tension and substrate wetting while minimizing foam creation in water-based pressure sensitive and laminating adhesives. No added solvents or APEs.

Surfy®nol SE
A self-emulsifiable wetting agent and defoamer. Surfy®nol SE surfactant is a self-emulsifiable product based on acetylenic diol chemistry. Provides similar performance to Surfy®nol 104, but with improved handling and incorporation in a wide variety of aqueous systems. No added APEs.

Surfy®nol SE-F
A self-emulsifiable wetting agent and defoamer. Surfy®nol SE-F surfactant is a self-emulsifiable product based on acetylenic diol chemistry. Provides similar performance to Surfy®nol SE, but with greater FDA approvals in a wide variety of aqueous systems. FDA compliance, no added APEs.

Surfy®nol 104
A nonionic wetting agent and molecular defoamer (100% active waxy solid). Surfy®nol 104 surfactant is an acetylenic diol based surface active agent that provides dynamic wetting and defoaming in waterborne coatings, inks, and adhesives systems. Surfy®nol 104 is available in a number of solvent cuts as well as powdered forms. FDA and EPA compliances, no added solvents or APEs.

Dynol® superwetters

Dynol 360
A high-performance nonionic superwetting and coalescing surfactant (100% active liquid). Dynol 360 surfactant is based on patented technology that provides extremely low dynamic and equilibrium surface tension reduction with low foam and film formation/coalescing benefits. Helps enable low-VOC coatings customers to meet environmental regulations in a variety of demanding waterborne applications. With no added solvents or APEs, this organic chemistry makes it a performance alternative to silicone and fluorsurfactants.

Dynol 604
A high-performance, ethoxylated nonionic superwetter (100% active liquid). Dynol 604 surfactant is based on patented ethoxylated, acetylenic diol surface active chemistry. Provides extremely low dynamic and equilibrium surface tension with low foam in a variety of demanding waterborne applications. With no added solvents or APEs, this organic chemistry makes it a performance alternative to silicone and fluoro surfactants.

Dynol 607
A high-performance, ethoxylated nonionic superwetter (100% active liquid). Dynol 607 surfactant is based on patented ethoxylated, acetylenic diol surface active chemistry. Provides extremely low dynamic and equilibrium surface tension with low to moderate foam and improved solubility in a variety of demanding waterborne applications. With no added solvents or APEs, this organic chemistry makes it a performance alternative to silicone and fluoro surfactants.

Dynol 800
A high-performance, nonionic superwetter (100% active liquid). Dynol 800 surfactant provides a superior balance of properties compared to traditional fluoro surfactants and silicone surfactants, with exceptional performance in wood, plastic, and automotive coatings as well as a wide variety of other water-based coating applications. Based on Gemini technology, Dynol 800 surfactant is easy to formulate and has the ability to reduce both equilibrium and dynamic surface tension to levels not achieved with other surfactants. This excellent balance of properties makes Dynol 800 surfactant an excellent alternative for difficult-to-wet substrates requiring good flow and leveling under diverse application conditions.
Airase defoamers and deaerators

Airase 4500
A proprietary organic oil defoamer designed to eliminate foam, pinholes and entrapped air in water-based inks, adhesives and coatings without generating surface defects. It contains no added mineral oils, HAPs, or APEs and has several FDA compliances.

Airase 5100
The Airase Structured Siloxane Defoamer Line (SSDL™ defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5100 defoamer is the strongest defoamer of the SSDL defoamer line. Designed for applications where strong defoaming is required and the formulations are not sensitive to cratering.

Airase 5200
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5200 defoamer, a product in the SSDL defoamer line, is designed for applications where strong defoaming is required and the formulations are not particularly sensitive to cratering. Provides excellent long-term, persistent defoaming in formulations. Better film compatibility than Airase 5100 defoamer.

Airase 5300
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5300 defoamer, a product in the SSDL defoamer line, is designed for applications where strong defoaming is required with good long-term persistency, especially in high shear applications.

Airase 5400
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5400 defoamer, a product in the SSDL defoamer line, is designed for applications where strong defoaming is required with good long-term persistency, especially in high shear applications. Better film compatibility than Airase 5300 defoamer.

Airase 5500
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5500 defoamer, a product in the SSDL defoamer line, can be incorporated in the grind or used as a let-down defoamer. Designed for applications where good defoaming is required with good long-term persistency and film compatibility.

Airase 5600
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5600 defoamer, a product in the SSDL defoamer line, can be incorporated in the let-down of a coating or ink. Airase 5600 defoamer provides an excellent balance of effective defoaming and film compatibility.
Airase 5700
The Airase Structured Siloxane Defoamer Line (SSDL defoamers) consists of products that span the application space from strong defoaming to high compatibility. Airase 5700 defoamer, a product in the SSDL defoamer line, is formulated for incorporation in the let-down of a coating or ink and has the best compatibility in the SSDL defoamer line. Airase 5700 defoamer provides an excellent balance of effective defoaming and film compatibility.

Airase 8070
A proprietary formulated modified siloxane deaerator. Particularly suitable for waterborne airless and air-assisted spray applications, this product is designed to eliminate foam, pinholing and solvent popping without generating surface defects.

ZetaSperse dispersants

ZetaSperse 170
A nonionic stabilizing surfactant (100% active liquid). ZetaSperse 170 dispersant is a tailored combination of wetting and stabilizing chemistries that provides optimized stabilization of acidic carbon black pigments and polar inorganics like TiO2 in waterborne coatings and inks. ZetaSperse 170 additive is best in conjunction with an anionic dispersant or grind resin.

ZetaSperse 179
A high HLB nonionic stabilizing surfactant and wetting agent. ZetaSperse 179 dispersant offers excellent nonionic stabilization properties for dispersion, emulsification and surfactancy benefits in a variety of waterborne applications including coatings inks and adhesives. In pigment dispersions specifically, ZetaSperse 179 dispersant can be used in the milling phase as a co-dispersant to improve the dispersion characteristics of an anionic polymeric dispersant as well as added during letdown to improve compatibility and color acceptance. ZetaSperse 179 dispersant contains no added APEs, offering a good alternative to highly ethoxylated alkyl phenol-based surfactants.

ZetaSperse 182
A high HLB nonionic stabilizing surfactant and wetting agent. ZetaSperse 182 dispersant offers excellent nonionic stabilization properties for dispersion, emulsification and surfactancy benefits in a variety of waterborne applications including coatings inks and adhesives. In pigment dispersions specifically, ZetaSperse 182 dispersant can be used in the milling phase as a co-dispersant to improve the dispersion characteristics of an anionic polymeric dispersant as well as added during letdown to improve compatibility and color acceptance. ZetaSperse 182 dispersant contains no added APEs, offering a good alternative to highly ethoxylated alkyl phenol-based surfactants.

ZetaSperse 1200
A high-performance dispersant (45% active solution in water and propylene glycol). ZetaSperse 1200 dispersant is a tailored combination of wetting and stabilizing chemistries. Provides optimized viscosity, gloss, and performance for polar inorganic pigment dispersions, such as titanium dioxide and iron oxides in waterborne coatings and inks.

ZetaSperse 2300
A high-performance dispersant (95% active liquid with water). ZetaSperse 2300 pigment dispersing additive is a tailored combination of wetting and stabilizing chemistries that provides robust stabilization of most pigment and particle chemistries in waterborne coatings and inks.

ZetaSperse 2500
A high-performance dispersant (40% active solution in water). ZetaSperse 2500 pigment dispersing additive is a tailored combination of wetting and stabilizing chemistries that provides excellent viscosity stability and stabilization of demanding organic pigment chemistries in waterborne coating and ink systems. ZetaSperse 2500 offers exceptional viscosity stability in the dispersion of metal salt pigments and contains no added APEs; as such, it is an alternative to Surfy-nol CT-171 additive.

ZetaSperse 3100
A high-performance dispersant (40% active solution in water). ZetaSperse 3100 dispersant is a tailored combination of stabilizing chemistries that provides outstanding stabilization of carbon black and inorganic pigment dispersions with robust letdown compatibility in waterborne coating and ink systems.

ZetaSperse 3400
A high-performance dispersant (29% active solution in water). ZetaSperse 3400 dispersant is a tailored combination of wetting and stabilizing chemistries that provides excellent color and viscosity stability in the dispersion of problematic and high-performance organic pigments such as quinacridone, perylene, azo, and metal complex chemistries in waterborne coating and ink systems.

ZetaSperse 3600
An anionic/nonionic pigment dispersant and wetting agent (52% active solution in water). ZetaSperse 3600 pigment dispersing additive is a proprietary formulation of surface active and polymeric chemistries that provides excellent millling, stabilization, and viscosity benefits in the dispersion of a wide range of organic and carbon black pigment chemistries in aqueous systems. Contains no added solvent or APEs and can be used as an alternative to Surfy-nol CT-131 and CT-136 additives.

ZetaSperse 3700
A high-performance dispersant (40% active solution in water). ZetaSperse 3700 dispersant is a tailored combination of wetting and stabilizing chemistries that provides excellent color and viscosity stability in the dispersion of problematic and high-performance organic pigments such as DPP phthalocyanine, azo and dioxazine chemistries in waterborne coating and ink systems.
Carbowet surfactants

Carbowet 76
An ethoxylated nonionic surfactant (HLB: 7.6). Carbowet 76 surfactant is an additive for pigment and substrate wetting for waterborne coatings, inks, and adhesives systems. Excellent water in oil emulsifier. FDA and EPA compliances, no added solvents or APEs.

Carbowet 103
An ethoxylated nonionic surfactant (HLB: 8.9). Carbowet 103 surfactant is a proprietary formulation that provides the surface tension reduction necessary to wet both pigment and substrate, and can enhance/stabilize color acceptance in waterborne coatings, inks, and adhesives systems. FDA and EPA compliances, no added solvents or APEs.

Carbowet 106
An ethoxylated nonionic surfactant. Carbowet 106 surfactant is a proprietary formulation designed to provide performance comparable to NP-6 type and similar alkyl phenol-based surfactants in waterborne coatings, inks, and adhesives systems. Allows for the surface tension reduction necessary to wet both pigment and substrate, and can enhance/stabilize color acceptance. FDA and EPA compliances, no added solvents or APEs.

Carbowet 109
An ethoxylated nonionic surfactant. Carbowet 109 surfactant is a proprietary formulation designed to provide performance comparable to NP-9 type and similar alkyl phenol-based surfactants in waterborne coatings, inks, and adhesives systems. Allows for the surface tension reduction necessary to wet both pigment and substrate, and can enhance/stabilize color acceptance. FDA and EPA compliances, no added solvents or APEs.

Carbowet 125
An ethoxylated nonionic surfactant. Carbowet 125 surfactant is a low viscosity liquid that is rapidly soluble in water and provides good surface tension reduction for substrate and pigment wetting in a wide range of applications. FDA and EPA compliances, no added solvents or APEs.

Carbowet 138
An ethoxylated nonionic surfactant (HLB: 13.8). Carbowet 138 surfactant is mid-HLB traditional surfactant with balanced properties for use in typical waterborne formulations. This low viscosity, easy-to-handle liquid provides an excellent alternative to APE chemistries of similar HLB and has a number of FDA and EPA compliances.

Carbowet 144
An ethoxylated nonionic surfactant (waxy solid at room temperature; HLB: 14.4). Carbowet 144 surfactant is an additive for pigment and substrate wetting in waterborne coatings, inks, and adhesives systems. Provides surface tension reduction and wetting, improves freeze/thaw stability of acrylic systems. Excellent oil in water emulsifier. FDA and EPA compliances, no added solvents or APEs.

Carbowet LSF
A nonionic wetting agent and dispersant that provides good wetting as well as good foam control to coagulant baths for both natural and synthetic rubber dipping process and in the preparation of latex tank compounds. It is an easy-to-dissolve liquid with a high cloud point that provides excellent wetting, rapid destabilization of foam, and reduced defects. No added APEs.

Carbowet 422
Carbowet 422 surfactant is a nonionic flow additive designed to enhance flow and leveling of brush applied waterborne paints and coatings that are based on alkyd, acrylic, PUD and other resin technologies. Carbowet 422 surfactant contains no added APEs or HAPs.

Carbowet GA-100
Carbowet GA-100 surfactant is a proprietary combination of nonionic wetting and stabilizing surface active chemistries. It offers low foam wetting of substrates and pigments as well as providing compatibilization and stabilization benefits in coating and ink formulations and dispersions. Carbowet GA-100 surfactant offers balanced performance for architectural paint formulations and excellent compatibility with associative thickeners.

Carbowet GA-210
Carbowet GA-210 surfactant is a proprietary combination of nonionic wetting and stabilizing surface active chemistries. It offers efficient wetting and stabilization benefits for a wide range of waterborne applications and can improve milling efficiencies in pigment grinds and dispersions. Compared to its sibling products in the GA series, Carbowet GA-210 surfactant offers the most universal and balanced properties and is suitable for all applications.

Carbowet GA-211
Carbowet GA-211 surfactant is a proprietary combination of nonionic wetting and stabilizing surface active chemistries. It offers low foam wetting of substrates and pigments as well as providing compatibilization and stabilization benefits in coating and ink formulations and dispersions. Compared to its sibling products in the GA series, Carbowet GA-211 surfactant offers the lowest foam and strongest dynamic wetting properties.

Carbowet GA-221
Carbowet GA-221 surfactant is a proprietary combination of nonionic wetting and stabilizing surface active chemistries. It offers low foam wetting of substrates and pigments as well as providing compatibilization and stabilization benefits in coating and ink formulations and dispersions. Compared to its sibling products in the GA series, Carbowet GA-221 surfactant offers the most stabilization benefits and a first choice for organic and carbon black pigment dispersions.
Continually striving to be the global supplier of choice of specialty additives in a broad range of applications and markets which value high performance solutions.
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