

# Next-generation of sustainable blowing agent dispersions

Color Solutions

## Alve-One®

### General information

Blowing agent dispersions decompose at temperature slightly above the gelation of the plastisol causing air bubbles and are widely used to expand rubber, thermoplastics -mainly flexible PVC- to create foam. Vibrantz has developed the next generation of blowing agent dispersions based on the hazardous-free and eco-friendly chemical foaming agent, Alve-One, designed for use in various plasticizer technologies. The dispersions meet the newest and strictest market and regulatory requirements and are a perfect solution for your foam applications.

### Key properties and benefits

The use of several blowing agents is at risk of being restricted in Europe as they have been or could be classified as a substances of very high concern (SVHC). Vibrantz's blowing agent dispersions are based on endothermic foaming agents and are the safest and most efficient alternatives available on the market. They enhance sustainability and durability for long-lasting foam applications.

Key properties and benefits include:

- Free of SVHCs
- Generate odorless foams
- Contribute strongly to volatile organic compound (VOC) reduction
- No activator needed
- Low CO<sub>2</sub> footprint
- Easy to handle in production
- Produced in Europe



## Applications

Alve-One blowing agent dispersions are compatible with several thermoplastic resins such as PVC plastisol and elastomers, and provide exceptional performance in an array of automotive, footwear and building and construction applications such as:

- Flooring
- Wallpaper
- Artificial leather
- Shoe soles
- Flexible hoses
- Profile and foamed boards
- Insulating foams

## Packaging and storage

The blowing agent dispersions should be stored in tightly sealed containers when not in use. This will prevent the absorption of atmospheric moisture and minimize the chance of airborne contamination. Containers should be stored in a manner as to protect them from temperature extremes (0–45°C). Material should be mixed prior to use if stored over 30 days. The best before use date is 24 months from the date of manufacture.

## Our services

Vibrantz is a leading global supplier of specialized pigments, colorants and chemical dispersions. Technical support for Europe is provided from our facilities in the Netherlands and Spain. Contact your dedicated sales representative to learn more about our expanded portfolio of products.

Product	Blowing agent content (Wt%)	Carrier content (Wt%)	Plasticizer technology	Average density Kg/ m <sup>3</sup>
Low temperature application, < 150°C				
DTP-90961 Blowing agent dispersion 0521	60	40	DOTP	1406
DNP-90962 Blowing agent dispersion 0521	60	40	DINP	1394
DH-90963 Blowing agent dispersion 0521	60	40	DINCH	1375
Medium temperature application, 150°C - 170°C				
DTP-90965 Blowing agent dispersion 0433	60	40	DOTP	1427
DNP-90964 Blowing agent dispersion 0433	60	40	DINP	1415
DH-90966 Blowing agent dispersion 0433	60	40	DINCH	1397
High temperature application, > 170°C				
DTP-90967 Blowing agent dispersion 0658	55	45	DOTP	1385
DNP-90968 Blowing agent dispersion 0658	55	45	DINP	1373
DH-90969 Blowing agent dispersion 0658	55	45	DINCH	1354

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