



# TECHNICAL DATA SHEET

 **U024-145W**  
 **U024-145D**

## Product Description

Dualite<sup>®</sup> U024-145W and Dualite<sup>®</sup> U024-145D are heat-expandable polymeric microspheres. These microspheres consist of an acrylonitrile copolymer shell which encapsulates a low-medium boiling point liquid. Upon application of heat, the microspheres expand to form a low density, foamed layer in systems that incorporate these microspheres.

Dualite<sup>®</sup> U024-145W is supplied as a wet cake that contains about 30% moisture and is recommended for aqueous systems. Dualite<sup>®</sup> U024-145D is supplied as a dry powder with less than 5% moisture and is indicated for non-aqueous applications.

## Product Features

- Expansion at low-medium temperatures (140 °C)
- Good heat and solvent resistance
- Good to very good resistance to yellowing upon exposure to heat, ultraviolet radiation, or high pH.

### Typical Properties

	<u>Wet</u>	<u>Dry</u>
Average particle size (µm)	10-15	10-15
pH	Slightly Alkaline	NA
Solids content (%)	70	>95
Nominal density g/cc	1.0	1.0
T start (°C)	115-120	115-120
T max (°C)	145-155	145-155
Maximum final density g/cc	0.0240	0.0240
kg/m <sup>3</sup>	24.0	24.0
lbs/gal	0.20	0.20
lbs/cu-ft	1.50	1.50
Shell composition	ACN	ACN
Blowing agent	isobutane	isobutane

We believe the above information is reliable, however the conditions of application and use of our products is beyond our control. No warranty is expressed or implied regarding the accuracy of this information. This information is supplied with the express condition that our customers will perform their own tests to determine the suitability of this product for their particular use.