

# TECHNICAL DATA SHEET

## dualite<sup>®</sup> U018-130W dualite<sup>®</sup> U018-130D

### Product Description

Dualite<sup>®</sup> U018-130W and Dualite<sup>®</sup> U018-130D are heat-expandable polymeric microspheres. These microspheres consist of a polyvinylidene chloride shell which encapsulates a low 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> U018-130W is supplied as a wet cake that contains about 30% moisture and is recommended for aqueous systems. Dualite<sup>®</sup> U018-130D is supplied as a dry powder with less than 5% moisture and is indicated for non-aqueous applications.

### Product Features

- Expansion at low temperatures (120 °C)
- Good heat and solvent resistance
- Good resistance to yellowing upon exposure to heat, ultraviolet radiation, or high pH.

### Typical Properties

Average particle size (µm)  
pH  
Solids content (%)  
Nominal density g/cc  
T start (°C)  
T max (°C)  
Maximum final density g/cc  
kg/m<sup>3</sup>  
lbs/gal  
lbs/cu-ft  
Shell composition  
Blowing agent

### Wet

10-15  
Slightly Alkaline  
70  
1.0  
90-95  
130-140  
0.0180  
18.0  
0.15  
1.12  
PVDC  
isobutane

### Dry

10-15  
NA  
>95  
1.0  
90-95  
130-140  
0.0180  
18.0  
0.15  
1.12  
PVDC  
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.