

dualite[®] U017-175W **dualite[®] U017-175D**

Product Description

Dualite[®] U017-175W and Dualite[®] U017-175D are heat-expandable polymeric microspheres. These microspheres consist of an acrylonitrile copolymer shell which encapsulates a 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[®] U017-175W is supplied as a wet cake that contains about 30% moisture and is recommended for aqueous systems. Dualite[®] U017-175D is supplied as a dry powder with less than 3% moisture and is indicated for non-aqueous applications.

Product Features

- Expansion at medium temperatures (160 °C)
- Very good heat and solvent resistance
- Very good to excellent 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/m³
 lbs/gal
 lbs/cu-ft
 Shell composition
 Blowing agent

Wet

20-30
 Neutral
 70
 1.0
 140-145
 175-185
 0.0170
 17.0
 0.14
 1.06
 ACN
 n-pentane

Dry

20-30
 NA
 >97
 1.0
 140-145
 175-185
 0.0170
 17.0
 0.14
 1.06
 ACN
 n-pentane

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.