TECHNICAL DATA SHEET

dualite® U010-185W
dualite® U010-185D

Product Description

Dualite® U010-185W and Dualite® U010-185D are heat-expandable polymeric microspheres. These microspheres consist of an acrylonitrile copolymer shell which encapsulates a high boiling point liquid. Upon application of heat, the microspheres expand to form a low density, foamed layer in systems that incorporate these microspheres.

Dualite® U010-185W is supplied as a wet cake that contains about 30% moisture and is recommended for aqueous systems. Dualite® U010-185D is supplied as a dry powder with less than 3% moisture and is indicated for non-aqueous applications.

Product Features

- Expansion at high temperatures (180 ºC)
- Excellent heat and solvent resistance
- Excellent resistance to yellowing upon exposure to heat, ultraviolet radiation, or high pH.

Typical Properties		Wet	Dry
Average particle size (µm)		20-30	20-30
pH		Neutral	NA
Solids content (%)		70	>97
Nominal density g/cc		1.0	1.0
T start (ºC)		145-150	145-150
T max (ºC)		185-195	185-195
Maximum final density g/cc		0.0100	0.0100
	kg/m^3	10.0	10.0
	lbs/gal	0.083	0.083
	lbs/cu-ft	0.62	0.62
Shell composition		ACN	ACN
Blowing agent		isopentane	isopentane

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Chase Corporation 295 University Avenue, Westwood, MA 02090
Customer Service: 1-800-323-4182 • Phone: 781-332-0707 • www.chasecorp.com