

BGCF-10低泡润湿分散剂

Low Foam Wetting Dispersant

产品特性/Product property:

本品化学成份为烷基芳基聚醚
 本产品拥有突出的低泡性能、极好的润湿乳化性、极强的分散功能，特别适用于乳胶漆制备和其它水性色料体系。BGCF-10与美国联碳公司TRITON CF-10相比,低泡及润湿效果基本相同。所不同的是, BGCF-10更注重其综合协同特性,使单一产品同时具有多重功用。

Chemical name alkyl aryl polyether

The product has excellent low-foam, wetting emulsifying and extremely good dispersing properties. It is particularly suitable for manufacturing latex paint and other water-base coloring matter system. The BGCF-10 is as low-foam wetting function as the USA UCC TRITON CF-10, but the product is pay attention to multiple properties compared with TRITON CF-10.

物理性能/Physical property:

| | | | |
|--------------------------------------|------------------------------|----------------------------------|------|
| 外观 Appearance | 淡琥珀色液体 Light amber liquid | HLB值 (理论) HLB(theory) | 12.6 |
| 固含量, wt% Solid content, wt% | ≥99 | 粘度 (25℃) cP Viscosity(25℃) cp | 250 |
| 浊点 (1%水溶液) Cloud point (1%water)℃ | 28℃ | 比重, 20/20℃ Density 20/20℃ | 1.07 |

表面活性/Surface activity:

BGCF-10能大大降低表面张力,尤其在低浓度下同其它常用表面活性剂相比特别有效。

BGCF-10 can distinctly reduce surface tension as well as particular effective in low concentration.

表面活性剂浓度对水表面张力的影响 (表面张力,达因/厘米) 表一

The influence of the surfactant on the surface tension of water (Surface tension dyne/cm) Table 1

| 浓度 wt% Concentration wt% | BGCF-10 | 美国联碳CF-10 USA UCC CF-10 | OP (TX) | 烷基苯磺酸钠 Alkyl phenyl sodium sulfate |
|-----------------------------|---------|----------------------------|---------|---------------------------------------|
| 0.1 | 30 | 31 | 29 | 33 |
| 0.01 | 31 | 32 | 28 | 42 |
| 0.001 | 42 | 42 | 49 | 53 |
| 0.0001 | 55 | 55 | 65 | 56 |
| 0 | 72 | 72 | 72 | 72 |

泡沫性能/Surface activity:

BGCF-10的泡沫性能与温度有关,温度愈高相对其它润湿剂的泡沫愈少高于37.8℃时,即使激烈搅拌,泡沫也很少。

Foam property of the BGCF-10 is relates to the temperature. The foam is the less, the higher of temperature and even if is stirred strongly is very little in 37.8℃

泡沫高度试验 表二
Foam height test table 2

| 表面活性剂 Surfactant | 泡沫高度/Foam height | | | |
|----------------------------|------------------|-------|-----|-------|
| | 25℃ | 37.8℃ | 50℃ | 71.1℃ |
| BGCF-10 | 10.0 | 4.4 | 3.5 | 0.5 |
| 美国联碳CF-10 USA UCC CF-10 | 10.0 | 4.4 | 3.5 | 0.5 |
| OP (TX) | >14 | >14 | >14 | 12.0 |

应用/Appliance: 制造乳胶漆/manufacturing latex paint

BGCF-10是一种通用型乳胶漆低泡润湿分散剂,如表二所示,在37.8℃或更高的温度下可以从它低泡特性里得到最大的受益,这种温度一般在高速色料分散时经常达到。

在多数涂料配方中,单独使用BGCF-10的用量在0.5~3.0%。BGCF-10经常作为同色料分散剂如Tamol731,Tamol850,Tamol960,一起使用的特效润湿剂,其混合物在0.1~0.5%最小用量下表现出最大效率的润湿分散及乳化协同效应。

BGCF-10 is low-foam wetting dispersant of general type latex paint. (show as table 2), the advantage of the BGCF-10 is showed mostly in ≥37.8℃ due to its low-foam property. The temperature can reach frequently in high speed coloring matter dispersant.

The amount of BGCF-10 is 0.5-3.0% in a lot of a formula for coating. BGCF-10 is also specific wetting agent thick often use along with coloring matter dispersant, such as Tamo1 731, Tamo1 850, Tamo1 960. The mixture show the most effective wetting dispersing and emulsifying effect under the lowest consumptions of 0.1-0.5%.