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Technical Data Sheet

AFN

General Description

- Daylight and ultra-violet responsive fluorescent submicron dispersion - formaldehyde free - for water-based formulations.
- A dyed/pigmented dispersion of an alkali soluble acrylic resin.

Applications

- Water based inks for flexo, gravure and textile.
- Water based paper coatings and paints.

Product Features

- AFN contains approximately 46% fluorescent pigment dispersed in water and a small percentage of alkali soluble acrylic resin.
- High color strength and brightness
- AFN is V.O.C. (Volatile Organic Compounds) free.
- AFN is compatible with a wide range of aqueous systems including, Water Based Flexo and Gravure Inks, waterborne Coatings and Paper Coatings
- AFN exhibits good lightfastness for indoor applications. However, the exterior lightfastness is limited.
- AFN dispersions should be thoroughly mixed before use to ensure homogeneity.
- The temperature during manufacturing should be kept below 60°C and pH adjusted to a minimum of 7.5 before use with other ingredients to prevent shocking

Standard Colors	
Product Name	Description
AFN-30	Chartreuse
AFN-33	Orange
AFN-34	Orange Red
AFN-35	Red
AFN-37	Pink
AFN-38	Magenta
AFN-39	Blue

Packaging:
1 HDPE jerry-can = 20kg
1 drum = 200kg
MOQ = 20kg

Storage & shelf life:
18 months after production date when kept in closed original packaging in a dry place at ambient temperatures. Dispersion should be protected from freezing.

Safety & regulatory:
Safety Data Sheet available on request.

Physical properties	
Delivery form	Liquid, 46-50% solids
Particle size (Laser diffraction)	± 0.25 – 0.45µm
Hegman grind	5.0 – 8.0
pH range	7.5 – 8.5
Specific gravity	1.0 – 1.1 g/ml
Brookfield viscosity	50 – 300 cps @ 25°C

(1)Test methods and Certificate of Analysis (COA) available on request.

Processing	
Solvent resistance	Water based product. Additives, co-solvents, and binder selection can influence the performance of AFN series dispersions. The effects of these raw materials should be tested in the final application formula.

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