**AFCONA – 5044**

**Chemical Composition**
Unsaturated polyamide and acid ester salts

**Product general description**
Anionic/cationic wetting and dispersing additive to improve the wetting of pigment surfaces and organically treated Bentonites

**Product Properties**
AFCONA-5044 is an additive for pigment dispersion. It reduces the interfacial tension between the vehicle and pigments or extenders. It stabilizes the pigments through electrical charge repulsion forces.

AFCONA – 5044 has the following special properties:

1) AFCONA – 5044 is a very compatible polymer. It can be used in all resin systems, ranging from nonpolar to highly polar systems. This product does not influence the pot-life of two-pack systems.
2) AFCONA – 5044 is often used in primer and some decorative paint. It is also widely used in marine and heavy duty paints as these paint systems do not require very high gloss finishing, and the chemical and physical properties are more important than the appearance.
3) Using AFCONA – 5044 will decrease pigment sedimentation, because it encourages hydrogen bond formation in the system.
4) In the dispersion of organically treated Bentonites, the use of AFCONA-5044 offers the following advantages:
   - shorter dispersion time
   - easier handling of the Bentonite gel
   - improved storage stability

Note: AFCONA – 5044 will become slightly hazy at temperatures below 5° C. This will not influence the performance of the product.

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**Product specification**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredients</td>
<td>50 - 54%</td>
</tr>
<tr>
<td>Solvents</td>
<td>Xylene / n-butanol / Monopropylene glycol</td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>0.93 - 0.95 g/cm³</td>
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<tr>
<td>Amine value</td>
<td>5 - 15 mg KOH/g</td>
</tr>
<tr>
<td>Acid value</td>
<td>25 – 45 mg KOH/g</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>25°C</td>
</tr>
<tr>
<td>Appearance</td>
<td>transparent yellowish to brownish liquid</td>
</tr>
</tbody>
</table>

**Addition and dosage**

0.2 - 2.0% based on inorganic pigments
2.0 - 5.0% based on organic pigments
For Bentonite gels, use 30 - 50% on the Bentonites

**Incorporation**
When used in mill-bases, add before grinding. In Bentonite dispersions, use as follows:

85-87 parts of solvent  
10 parts of Bentonite  
5- 3 parts of AFCONA-5044  
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100 parts

**Storage**
AFCONA-5044 should be stored in a cool, dry place. When kept in its original, unopened container, it will keep up to 5 years from the date of manufacture. The expiration date is indicated on the container

**Packaging**
55 lb and 397 lb non-returnable containers

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distributed by:

AFCONA ADDITIVES
Web Site: www.afcona.com
This datasheet is intended to give technical guidance without any obligation
This TDS was modified and created for NA Region