



AQUASPERSIONS

Antioxidant Product Overview

Antioxidant Dispersions & Emulsions

Aquaspersions Capabilities

- Production of single component or multi-component water-based antioxidant dispersions and emulsions.
 - Choice of antioxidant or antioxidant blends is dependent on the end use applications
- Mainly based on phenolic primary antioxidants
 - Single component or multi component phenolic antioxidants
 - Or blends of phenolic antioxidants with secondary antioxidants such as thioesters
- Active solids contents typically 40% or 50%
- Can tailor to specific customer needs depending on business justification

Solutions for Different Market Segments

- PVC Polymerisation
- SBR Latex and NBR Latex
- Solid NBR
- Natural Rubber Latex

PVC Polymerisation

- Antioxidants used as a chain stopper in the PVC polymerisation process.
- Aquaspersions offers a range of solutions depending on the specific customer requirements.
 - Single Primary Phenolic Antioxidants:
 - Aquanox 76P
 - Aquanox 45-SF
 - Antioxidant Blends
 - Aquanox 60 range (proprietary aqueous blends of primary & secondary antioxidants).
 - Aquanox 100S (proprietary liquid blend – 100% active)

SBR & NBR Latex

- Aquanox L-SF
 - Primary antioxidant L dispersion for use in synthetic latex compounds and in manufacture of ABS latex
- Aquanox L Ultra Emulsion
 - High antioxidant L containing aqueous emulsion
 - Provides high thermal stabilisation in synthetic elastomers
 - Good resistance to sedimentation in latex applications
- Aquanox LDLA
 - Blend of primary and secondary antioxidants
 - Protects against thermal degradation in synthetic lattices
 - Especially effective in Nitrile rubber applications

Solid NBR Polymers

More challenging to stabilise than NBR Latex.

- Aquanox NB52
 - Patented synergist blend of phenolic antioxidants
 - Provides excellent heat ageing properties
 - Developed to replace 2246 type antioxidant
- Aquanox NB4761
 - Antioxidant L free version synergistic blend of phenolic antioxidants
- Aquanox 29 EF emulsion
 - Aminic based antioxidant
 - Used in NBR powder for more extreme applications such as brake linings
 - Provides resistance to heat and flex fatigue
 - Also effective in Polychloroprene

Natural Rubber Latex

Various applications including glove manufacture, tyre cord dipping compounds & adhesive compounding

- Aquanox L or Aquanox L-SF
 - 1st recommendation for gloves
- Aquanox L Ultra
 - For low viscosity systems where there is a risk of sedimentation
- Aquanox 29
 - For tyre cord RFL dipping compounds
- Aquanox 76
 - For adhesive applications needing specific FDA requirements

Thank You

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