# Addimat AO 3504

## **Product brochure**







## **Key Features**

- FDA Compliant, with no hazardous ingredients
- Oeko-Tex Eco passport certification
- Excellent compatibility and colour retention with most polymers
- Nonstaining
- High heat stability
- Low volatility and extractability

## **Product overview**

Addimat AO 3504 is a phenolic antioxidant that has the capability to perform on its own, unlike the thioether option. Addimat AO 3504 is a sustainable, FDA compliant and non-hazardous antioxidant in aqueous form that can perform same or better than conventional antioxidants. It is a radical scavenger which prevent thermal degradation of many polymeric materials. Offers excellent long-term heat stabilization. It should also be noted that due to the high molecular weight and molecular structure, the antioxidant has low volatility and excellent resistance to extraction.

## Property Addimat AO 3504

Chemistry	Phenolic Antioxidant
Form	Aqueous dispersion
Active content	50%
Molecular weight	> 1,000 g/mol
Melt range	110-130°C
Recommended Dosage	0.2-2.0 phr

## **Applications**

- Bedding Mattress
- Food Packaging
- Carpet Backing
- Food Contact Gloves
- Textile Coating
- Paper Coating





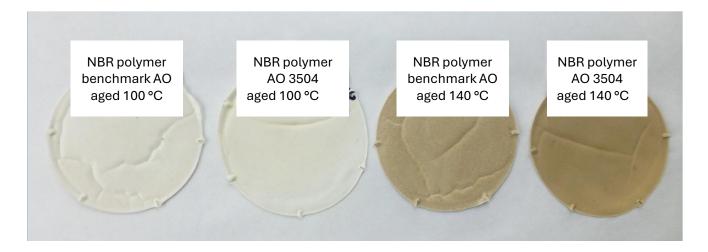






## **Aging Test Evaluation with Different Polymers**

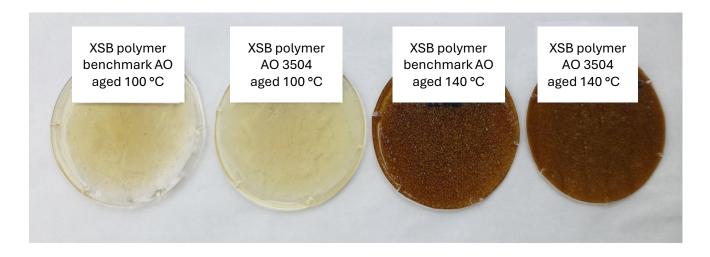
The AO dispersions are tested at a dosage of 0.7 parts active AO on 100 dry rubber with aging test done at 100°C and 140°C, with NBR Polymer and XSBR Polymer.



#### **Image 1:**

Vulcanised films of NBR polymer with Addimat AO 3504 and Industrial standard AO as benchmark.

Both aged at 100°C and 140°C for 24 hours.



#### Image 2:

Dried films of XSB polymer with Addimat AO 3504 and Industrial standard AO as benchmark.

Both aged at 100°C and 140°C for 24 hours.



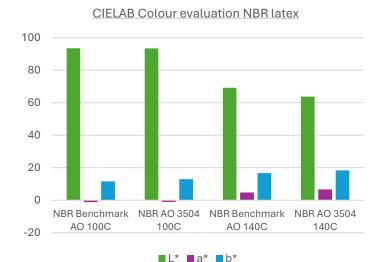
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### CIELAB Colour Evaluation



#### Graph 1:

Colour measurement on vulcanized NBR latex show ageing properties for Addimat AO 3504 which are comparable with the industrial standard AO.



CIELAB Colour evaluation XSB latex

#### 80 60 40 20 XSB AO 3504 XSB Benchmark XSB AO 3504 XSB Benchmark AO 100C 100C AO 140C 140C

■L\* ■a\* ■b\*

#### Graph 2:

Colour measurement on dried XSB latex show ageing properties for Addimat AO 3504 which are comparable with the industrial standard AO.

## **Commercial Team**

Bas.deRuiter@matcochemicals.com +31 412 681751 | Mobile: +31 6 20 49 07 07 Matco Chemicals B.V.

Paul.vanDijk@matcochemicals.com +31 412 681781 | Mobile: +31 6 10 36 84 39 Matco Chemicals B.V.

Philippe.Berckmoes@matcochemicals.com +32 56 78 80 60 | Mobile: +32 470 08 21 78 Matco N.V.

#### Matco Chemicals B.V.

The Netherlands **Jsselstraat 41** 5347 KGOss +31412681700

#### Matco N.V.

Belgium Textielstraat 26 B-8790 Waregem +3256788060

### Matco S.A.E.

Egypt Industrial Zone 1-B 10th of Ramadan City Sharkiya +20554499260



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