

# Dusantox<sup>®</sup> L

**Chemical Composition:** Dusantox<sup>®</sup> L is blend of reaction products of Dusantox<sup>®</sup> 6PPD with  $\alpha$ -methylstyrene  
1. N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine (approx. 60 %)  
2. N-(x-[ $\alpha,\alpha'$ -dimethylbenzyl]phenyl)-N'-(1,3-dimethylbutyl)-p-phenylenediamine (max. 40 %)

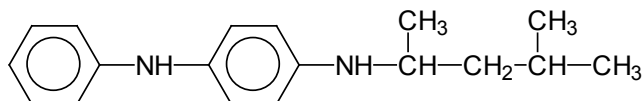
**UIPAC Name:** N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine, reaction products with 2-phenylpropene

**Empirical Formula:**  
1. C<sub>18</sub>H<sub>24</sub>N<sub>2</sub>  
2. C<sub>27</sub>H<sub>34</sub>N<sub>2</sub>

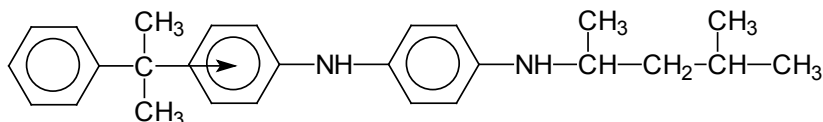
**Molecular Weight:**  
1. 268.4  
2. 386.6

**Structural Formula:**

1.



2.



**Physical Form:** Dark brown to black viscous liquid with aromatic odour.

**Technical Parameters:**

Content of 1. substance (6PPD)	60.0 ± 2% by weight
Content of cumylated 6PPD	40.0 % by weight max.
Heat loss (70 °C, 3 h)	0.4% by weight max.
Viscosity (20 °C)	3.9 – 4.2 Pa.s

**Solubility:**

Dusantox<sup>®</sup> L is well soluble in organic solvents, acetone and toluene as well as in rubbers. Insoluble in water.

**Application:**

Dusantox<sup>®</sup> L is an effective stabilizer of synthetic styrene-butadiene and polyisoprene rubbers also as good-quality antidegradant for dry rubber compounds. It associates protective effect of the well-proven antiozonant Dusantox<sup>®</sup> 6PPD /1./ with long-term antidegradant effect of the alkylated product - cumyl derivative of Dusantox<sup>®</sup> 6PPD /2./. Dusantox<sup>®</sup> L is well soluble in rubbers that enables its higher dosege without the risk of blooming. It is distinguished by very good dispersability in compounds and it is used as antidegradant. The most important characteristic of Dusantox<sup>®</sup> L is its low volatility and excellent washout resistance that guarantee a long-term protection of rubber products. It causes expressive colouring and contact staining of vulcanizates comparable with Dusantox<sup>®</sup> 6PPD.

**Packaging and Storage:**

Dusantox<sup>®</sup> L should be delivered in 200 l steel barrels. According to customer requirement it is possible to dispatch it in tank trucks. The product is necessary to store in closed and undamaged original packagings in a well ventilated stores, away from aggressive chemicals and foods. Storage life is one year under the observation of storage conditions.

The given data are only of an informative character and are not comprehensive. Further information can be obtained:

0106



**Producer:**

Duslo, a. s.  
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Slovak republic

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