

Wiking® AS-PE Asphalt Fibres

Wiking® AS-PE Asphalt Fibres are a synthetic blend of aramid and polyolefin fibres, designed to provide three-dimensional reinforcement in asphalt mixes for binder and surface courses, including SMA and porous asphalt.

The fibres reduce thermal cracking, material fatigue and rut formation, significantly extending pavement life – without any changes to installation methods.

Benefits and Properties

- Extends asphalt service life by up to 50%
- Reduces rut depth by >50%
- Thermal stability from –26.3°C to production heat
- 100% recyclable
- No change to installation methods required

Specifications – Wiking® AS-PE Asphalt Fibres

Material	Polyolefin	Aramid
Fibre length	18 mm	18 mm
Tensile strength	35 MPa	3000 MPa
Melting point	100–130 °C	450 °C
Chemical resistance	High	High
Water absorption	None	None
Dosage	0.5–0.8 kg per metric ton	

2025.11.24



General Areas of Application

- Asphalt pavements
- Stone Mastic Asphalt (SMA)
- Noise-reducing asphalt
- Roads with heavy traffic loads
- Roads optimised for durability

Specifications – Wiking® AS-PE Asphalt Fibres

Wiking® AS-PE Asphalt Fibres are chemically resistant to substances in asphalt mixes and do not affect the appearance or durability of the pavement.

Asphalt is often exposed to high stresses caused by temperature fluctuations and traffic loads, which can lead to cracking and deformation. With Wiking® AS-PE Asphalt Fibres, a three-dimensional reinforcement is achieved throughout the asphalt layer, increasing its ability to withstand these stresses.

The fibres absorb compressive and tensile forces and ensure that stresses from cryogenic conditions and shear loads are evenly distributed without causing damage. This results in a significant reduction in rut formation and improved thermal stability.

The fibres are evenly dispersed during a wet mixing time of at least 45 seconds, with a dosage of 0.5–0.8 kg per metric ton of asphalt mix.

Key Characteristics of Wiking® AS-PE Asphalt Fibres

The characteristic properties of Wiking® AS-PE Asphalt Fibres can briefly be described as being

- High chemical resistance
- Low water absorption
- Thermal stability
- High tensile strength
- Low electrical conductivity

Delivery Programme

Wiking® AS-PE Asphalt Fibres are supplied on 420 kg pallets, consisting of 35 boxes with 0.5 kg bags. Minimum order quantity subject to agreement.

Extent of Guarantee

Wiking® AS-PE Asphalt Fibres comply with ZTV Asphalt-StB and TL Asphalt-StB standards and are manufactured in an ISO 9001:2015 certified facility. Danish Fibres has no control over the processing of our products by third parties and therefore cannot accept responsibility for the final product.

Health and Safety

Please read the specific safety data sheets or contact the technicians at Danish Fibres.

Technical Consultation

The technical department at Danish Fibres is available to you and can give you advice about the correct use of our products.