

Advisory note 21

Cutter Oils for the Reduction in Viscosity of Bitumen Binders

This note has been developed by AAPA members for cutters used in sealing and maintenance applications. AS 3568 - 1999 Oils for reducing the viscosity of residual bitumen for pavements does not necessarily reflect products that are available in the market. This advisory note is intended to provide guidance to purchasers of the properties of cutters that are currently in use and that have provided acceptable performance.

Property	Test Method	Cutter Oil ¹	High Flash Point Cutter	Flux Oil ³
Appearance	Visual	Clear and free from water, sediment and suspended matter		
Flash point, °C	ASTM D93/ ASTM D3828	38 min	61.5 min	61.5 min
Aromatic content ² , %	ASTM D1319	15 min	15 min	15 min
Density at 15°C, kg/m ³	ASTM D1298/ AS 2341.6	0.775 – 0.830	0.780 – 0.840	0.820 – 0.860
Distillation, Initial boiling point Final boiling point	ASTM D86	140 min	150 min	175 min
	ASTM D86	270 max	290 max	360 max

Notes

- 1 Cutter oil complying with the requirements of Jet A1 fuel is the reference product
- 2 Average of five batches
- 3 Flux oil complying with the requirements of diesel fuel is the reference product

Cutter oils that do not comply with the above table but have a demonstrated history of use in sprayed seals can be used in agreement with the client authority.

It is recommended that reference is made to the AAPA website for the most current version of this document.

Disclaimer:

Although the information contained in this Advisory Note is believed to be fundamentally correct, the Australian Asphalt Pavement Association does not accept any contractual tortious or other form of liability for its contents or for any consequences arising from its use. Advice should be sought from suppliers prior to selecting, handling, applying or storing products.

Date of Issue: Sep 2016

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