WATER CONTENT BY AZEOTROPIC DISTILLATION – DEAN STARK

PRINCIPLE

The test consists in determining the water content of bitumen emulsions by Dean Stark distillation. The water contained in the sample is extracted by reflux distillation with a solvent (azeotropic distillation). The condensed water and solvent are continuously separated in a 25 ml recipe tube graduated every 0.1 ml. Water accumulates in the graduated recipe tube and the condensed solvent returns to the flask.

STANDARD

EN 1428 – ASTM D244

PRODUITS

Label	Description	Reference
Dean Stark – Complete set 300 mm		F044.145.0100
	Complete kit to achieve azeotropic distillation of Dean Stark emulsions. **Glassware set** → 1 Straight condenser with useful length 300 mm → 1 25/0.1 ml collector tube with round bottom, 0 in low position → 1 500 ml capacity distillation flask **Set of test accessories** → 1 Balloon heater 500 ml → 1 Tripod stand complete with 2 clamps 3 fingers and clamping nuts → 5 m of natural rubber hose → **The most VIALAB: Stainless steel rod Ø1.5 mm looped 50 cm long for the recovery of drops**	
Dean Stark – Complete set 400 mm *(Morocco – Algeria)*		F044.145.0101
→ Identical to the reference F044.145.0100 with a straight condenser with a useful length of 400 mm		

COMPLEMENTARY PRODUCTS AND ACCESSORIES

	Label	Description	Reference
	Pumice grain 1-2 mm (2 kg)	→ Boiling regulator	F007.415.9016
	Wood tongs for hot tube or balloon 180 mm	→ Safe handling of balloons	F039.205.7200
	Valet in cork 55x110 mm for 250 to 50 ml flask	→ Holder for distillation flask	F039.205.0110

Others complementary products and accessories on www.vialab.fr

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