EXT-100

BROOKFIELD VISCOMETER

Technical information

GRANULAR PITCH ELECTRODES LINING

RAD IN-PLANT LAB

The viscosity of a binder is one of its main properties, as it has a strong impact on the mixing and forming steps of the electrode production, and ultimately on the final electrode quality. The viscosity is a function of the temperature. Defining its value for given temperature levels is the basis to determine the optimum mixing and forming temperatures to obtain a constant green paste viscosity.

The measurement is conducted with the EXT-100 apparatus, where a given quantity of binder is first heated in an external oven and then placed into the viscosimeter at a regulated temperature level. A spindle turns in the molten sample while the torque on the spindle is used for the calculation of the viscosity in centipoise (cP). Several temperature levels, usually between 140°C and 180°C, are measured to determine the temperature at which a given viscosity level is reached.

Standard Method:	ASTM D5018
Measurement: Viscosity	[cP]
Maximum Temperature:	300°C
Sample:	9 g of pitch (< 4 mm)
Process Time:	~ 2 hours
Installation:	Workbench under fume hood
Dimensions (LxWxH):	28 x 56 x 56 cm
Weight:	10 kg
Electrical Property:	230 V 3/N/PE, 50 Hz 0.3 kW, 1.3 A
Certified Reference Material:	RDC 1100
Database Connection:	No

Additional Recommended Equipment:

Weighing scale with an accuracy of 0.1 g Oven (min. temperature 180°C)



RDC 1100

Weight per unit: Number of tests:

Fechnical information



200 g

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