

Elcometer 5100 Payne Permeability Cups



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Instrument made entirely of anodised aluminium, used to determine the permeability of films of paint, varnish, plastic, cellophane, etc.

The film is gripped between a ring fitted with a seal and the cup, which contains a quantity of water.

The water evaporates and after a certain time the weight loss relative to the film thickness is calculated, indicating the degree of permeability.

Drying Time

When developing a process, it is often important to know the exact time it takes for the coating to dry or cure.

There are many stages to the coating drying time. Once a coating has been applied, the first stage is that the coating levels off under gravity. Once a coating begins to cure, a thin dry film appears on the surface. The coating then continues to dry and finally after a period of time, the coating is totally cured.

But how do you know when a coating is totally dry?

Using the Elcometer Drying Time Recorder, the operator can easily identify each of the stages of the drying process.

At a glance

- Used to determine the permeability of a coating.
- Precision product for reliable results.

Can be used in accordance with:	
ASTM E 96-80	ISO 7783
NF T 30-018	

Model	Description	Area		Part Number
		cm ²	sq. inch	
Elcometer 5100/1	Elcometer 5100 Payne Permeability Cup	10	1.55	K0005100M201
Elcometer 5100/2	Elcometer 5100 Payne Permeability Cup	30	4.65	K0005100M202
Elcometer 5100/3	Elcometer 5100 Payne Permeability Cup	50	7.75	K0005100M203
Accessories	Spare Rubber Seal for Elcometer 5100/1			KT005100P002
	Spare Rubber Seal for Elcometer 5100/2			KT005100P003
	Spare Rubber Seal for Elcometer 5100/3			KT005100P004

Related products



Elcometer 7300

A professional high precision stopwatch is required for measuring the flow time of a coating or other product under test with a viscosity cup.

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