

Accelerated Weathering Test Chamber

CAPABILITY SHEET · LIGHT · WATER · CONTROL SPECIMEN · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	A chamber hour is not a year outdoors.
WHY IT MATTERS	How much faster a chamber ages a material depends on the material, so the chamber ranks materials against a control and does not count years.

THE CHAMBER

LIGHT	Lamps of the type the standard names, with a radiometer that measures the light and a controller that holds it, so the irradiance is not assumed from the lamp rating.
WATER	A wet phase made by condensation from a heated water pan, or by a spray, with clean water, in turn with the light phase.
PANEL	A black panel thermometer at the face of the racks, so the cycle is set at what the specimen sees and not at the chamber air.
CONTROL	A control specimen in every run, in a fixed place in the racks, shows whether the chamber did what it was set to do.

THE METHOD

ORDER	Specify, mount, set, run, inspect and prove. Measuring the light and the panel, and comparing with a control, are what a quick order skips.
LIMITS	Irradiances, temperatures and cycle times come from the standard the customer names and from the material, and are not printed here.

CONFIGURATIONS

UV AND CONDENSATION	Fluorescent ultraviolet lamps with a heated water pan that makes the wet phase by condensation.
UV, CONDENSATION, SPRAY	The same cabinet with a water spray on the face, for materials that meet rain as well as dew.
XENON-ARC CHAMBER	A full-spectrum lamp with filters to match the sun, for materials and tests that name it.

STANDARDS & SCOPE

STANDARDS	Public references: ASTM G154 and ISO 4892-3 for fluorescent UV, ASTM G155 and ISO 4892-2 for xenon-arc, and ASTM G151 for the general practice.
SCOPE BOUNDARY	It is the weathering chamber: not a climatic chamber, not a salt fog chamber, not a dust chamber, and not a solar simulator for photovoltaic modules.
STATUS	Neometrix engineers accelerated weathering test chambers to order, and no delivered accelerated weathering chamber is claimed.

DEFENCE PROGRAMMES DESK

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