

Kesternich/Sulphur Dioxide (SO₂) Exposure Testing

Principle:

The Kesternich test, or the sulphur dioxide exposure test is used for testing the corrosion resistance of metallic surfaces and outer protective layer coatings.

Accelerated corrosion atmospheres are induced in the testing chamber using SO₂ gas and natural humid conditions. The chambers are designed to create optimal conditions of temperature and humidity and make provisions for introducing impurities and contaminants thus maximising the corrosive action of sulphur dioxide.

The products are exposed to humid atmospheres containing corrosive SO₂ gas for a specified period. The procedure is recommended for testing coatings of thickness not exceeding approximately 40 µm.

Kesternich model:



Figure: Sulphur dioxide exposure chamber

Video link:

<https://www.facebook.com/TrespalInternational/videos/resistance-to-sulphur-dioxide-trespa-quality-videos-2/2918855661679879/>



Instrument Description

Sub Folder: Exposure



Typical samples:

Protective coating samples are tested such as industrial components, electrical items, electronic parts and components, mechanical constructions, automobile, and aircraft parts and components.

Standards:

The samples are assessed according to international standards, Kesternich Test DIN EN 6988, or customer requirements.

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