

Gibitre™ De Mattia Immersion Type Flex Tester: Description



CCSi features the Gibitre™ De Mattia Immersion Type Flex Tester for evaluating crack growth of vulcanized rubber when exposed to repetitive flexing, as described in [ASTM D813](#) “Standard Test Method for Rubber Deterioration-Crack Growth”, [ASTM D430](#) “Standard Test Methods for Rubber Deterioration-Dynamic Fatigue,” Method B, and related methods. **NOTE**

The De Mattia is specifically designed to be adapted for use in fluid immersion (aging ovens & environmental chambers), liquid immersion (oil and water solution baths, etc.).

The De Mattia's lower mechanism is constructed from stainless steel and other alloys that resist the negative effects of fluids and liquids. The immersion media may be fluids (air at ambient, elevated or subnormal temperatures) or liquids such as oils, fuels, solvents, or other various volatile and non-volatile liquids as described in [ASTM D471](#) “Standard Test Method for Rubber Property – Effects of Liquids.”

The Gibitre™ De Mattia Immersion Type Flex Tester incorporates a quality self-contained electric motor which provides from 60 to 300 cycles per minute at with an adjustable stroke of 0 to 60 mm. The clamping mechanism is adjustable to induce varying amounts of stress of up to 16 test specimens. The range of adjustment of the cycles, stroke, and stress allow nonstandard specimens to be tested.

The instrument is equipped with a polyacrylic enclosure to greatly reduce the affects of the surrounding environment, when used as a bench top instrument. The enclosure also features a positive interlock mechanism to prevent unintentional disturbance during the testing cycle.

NOTE: Related Test Methods:

- ISO 132, DIN ISO 132 (Germany) & BS ISO 132 (UK), Rubber, vulcanized or thermoplastic - Determination of flex cracking and crack growth (De Mattia);
- NF T46-015 & NF T46-016 (France), Vulcanized rubber. Determination of the resistance to flex cracking (De Mattia).

Gibitre™ De Mattia Immersion Type Flex Tester: Specifications

Testing Speed:	Adjustable from 60 – 300 cycles/minute
Flexure Stroke:	Adjustable from 0 – 60 mm
Clamping Distance:	100 mm
Specimen Capacity:	16
Specimen Holder Dimensions:	200 Ø x 400 mm (8.5 Ø x 15.75 inch)
Display:	Digital, number of cycles
Instrument Dimensions:	560 x 560 x 970 mm (22 x 22 x 38.2 inch)
Power Supply:	220 ± 10% VAC, 50 ± 3 Hz, 1 PH, 3 Ampere
Net Weight:	80 kg (176.4 lb.)
List Price:	Please Submit a Request for Quotation (RFQ)

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