STANDARDS TEST FIXTURE

Cryogenic Bend and Peel Fixtures

PTFE and stainless steel fixtures for bend, peel and tensile tests in liquid nitrogen



OVERVIEW

Fixtures for bend, peel and tensile tests under cryogenic conditions. Specimens are immersed in liquid nitrogen in an insulated PTFE cold bowl or tray mounted on the testing machine, with test temperatures down to about -180 °C. Versions include a bend jig with supports, peel bowls with manual or pneumatic lift, and a tensile fixture with special sealing.

KEY FEATURES

- Tests in liquid nitrogen down to about -180 °C
- PTFE cold bowls and trays insulate the bath
- Stainless steel load-bearing parts for cryogenic service
- Peel bowl with lift for raising the bath around the specimen
- Pneumatic lift version for faster test cycles
- Tensile version with sealing system for the pull rod

TECHNICAL SPECIFICATIONS

Test type	Bend, peel, tensile
Test temperature	Down to approx. -180 °C (bend jig -150 °C)
Cooling medium	Liquid nitrogen
Material	PTFE, stainless steel
Lift	Manual or pneumatic (peel versions)
Max. load	On request
Coupling	On request

AVAILABLE VERSIONS

Cryogenic bend jig	Tray and supports, PTFE and stainless steel, -150 °C
Cryogenic peel bowl	Cold cup with lift, -180 °C
Peel bowl, pneumatic	Cold cup with pneumatic lift
Cryogenic tensile fixture	Special sealing system, -180 °C

APPLICATIONS

- Superconductor tapes and cables
- Cryogenic tank insulation
- LNG and aerospace materials
- Adhesives at low temperature

Ordering & customization: Specify the test type (bend, peel or tensile), specimen size, lowest test temperature and the machine coupling.

Drawings available on request
Contact us for dimensional drawings or 3D models of this product.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-ST-290