

# 3 & 4 POINT BEND FIXTURES

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### OVERVIEW

Bend fixtures are typically used for applying constant stress to a sample for an extended period of time. The stress is applied by deflecting thin metal samples a specified amount using a loading apparatus. While this deflection is maintained, the fixtures are placed in a corrosive environment within a hydrogen induced cracking (HIC) tank or autoclave for the duration of a test. These bend fixtures are the same as specified in ASTM G39 and NACE TM0177 – Method B. A loading fixture can be included to simplify the deflection measurement. **All Cortest fixtures are made from Hastelloy C-276 material, a superior solution to coated 316 S.S. fixtures.**

CATEGORIES : OIL & GAS | STEEL | RESEARCH

TEST METHODS  
**NACE TM0177**  
**ASTM G39**

FIXTURE DESIGNS  
**3 OR 4 POINT BEND**

MATERIAL OF CONSTRUCTION  
**HASTELLOY C-276**  
(No Coatings to Scratch Off)

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### TYPICAL APPLICATIONS

- Constant Load Testing – NACE TM 0177 Method B
- Four-Point Bend Testing of Materials for Oil and Gas Applications – NACE TM0316
- Long/Short Term Environmental Exposure Testing
- Microbiologically Influenced Corrosion (MIC) Studies
- Stress Corrosion Testing of Alloys – ASTM G39
- Hydrogen Induced Cracking (HIC) Test Tanks

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