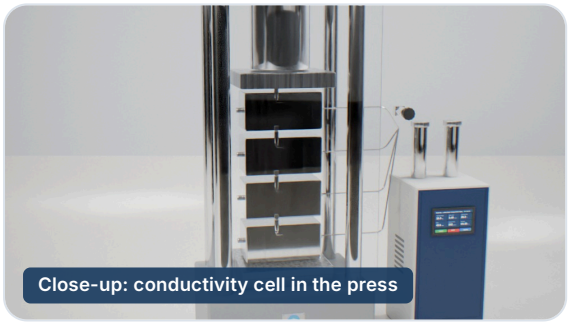
PRODUCT DATASHEET

Fracture-Conductivity Cell and Proppant Crush Tester

API RP 19D conductivity cells and crush testers for proppants

Product page





Close-up: conductivity cell in the press

OVERVIEW

The Tech Inc. Fracture-Conductivity Cell and Proppant Crush Tester measures how well a propped fracture conducts fluid under closure stress, and how much a proppant crushes. Proppant is packed between core or metal platens in a conductivity cell, a hydraulic press applies the closure stress, and brine flows through the pack at temperature while pressure drop and pack width are measured; the crush tester loads a proppant sample in a die and the fines are sieved.

TYPICAL DESIGN DATA

Closure stress	To about 1,000 bar (about 15,000 psi)
Temperature	To about 150 °C
Flow	Brine at controlled rate with back pressure
Codes and standards	Test practice to API RP 19D (ISO 13503-5)
Measurement	Differential pressure, pack width, temperature
Materials	Stainless steel cells and platens
Press	Hydraulic press from a specialist maker

MODELS AND CAPACITIES

- **TI-FCC-1** – one cell, closure to about 1,000 bar
- **TI-FCC-CR** – crush tester
- **TI-FCC-4** – four stacked cells
- **TI-FCC-SET** – laboratory set

Indicative closure stress.

ORDERING CODE

Example **TI-FCC-4**: **4** type: 1, 4, CR or SET.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: additional cells; core platen cutting; crush tester; data logging.

KEY ADVANTAGES

- **Long-term** – tests over days at temperature
- **Standard practice** – API RP 19D
- **Several cells** – stacked under one press
- **Complete** – conductivity and crush

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