

FS500 CT Tear Tester

SPECIFICATIONS

The universal FS500 CT tear testing machine enables the measurement of mechanical properties of metallic and non-metallic materials at normal and elevated temperatures according to the relevant standards. To measure mechanical properties at elevated temperatures the tear machine is equipped with an electric three-zone vertical furnace of type 4011T-3Z with a range of measured temperatures up to 1100 °C. The maximum testing force of the tear machine is 500 kN.

MEASURING METHODS

ČSN EN ISO 6892-1, Metallic materials - Tensile testing - Part 1: Method of test at room temperature;
ČSN EN ISO 6892-2, Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature;
ČSN EN ISO 7438, Metallic materials - Bend test;
ČSN EN 12390-3, Testing hardened concrete - Part 3: Compressive strength of test specimens;
ČSN EN 12390-4, Testing hardened concrete - Part 4: Compressive strength - Specifications for testing press machines.

OVERVIEW OF MEASURABLE PARAMETERS / OUTPUT INFORMATION

Working diagram: yield strength, tensile strength, ductility, contraction.



TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

Metallic and non-metallic test specimens of various shapes (cylindrical, flat, etc.). Loading speed from 0,001 to 500 mm.min⁻¹. Maximum heating rate of the samples is 25 °C.min⁻¹.