



# Technical Specification

**ISO/TS 6892-5**

## **Metallic materials — Tensile testing —**

### **Part 5: Specification for testing miniaturised test pieces**

*Matériaux métalliques — Essais de traction —*

*Partie 5: Spécifications pour l'utilisation d'éprouvettes d'essai  
miniaturisées*

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This document was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 1, *Uniaxial testing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 459/SC 1, *Test methods for steel (other than chemical analysis)*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 6892 series can be found on the ISO website.

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## Introduction

The knowledge of the local strength properties and local flow curves of formed component areas becomes increasingly important for different applications. However, their determination by tensile testing is often restricted because of the possible test piece geometry, the availability of suitable testing equipment and the comparability with the results of the standard tensile tests. By using adjusted test piece geometries, suitable test piece preparation, adapted clamping and extensometer systems and finally an adjusted test procedure tensile test can be performed which gives reproducible and comparable test results.

In this document suggestions are given to perform tensile tests on miniaturised test pieces. It describes the state of the art of testing using adjusted standard testing equipment.

It is pointed out that the experimental effort (test piece preparation, adjustment and alignment of the testing equipment and also the fine motor skills) is higher than for testing of typical standard test piece geometries.

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