



**BSI Standards Publication**

## **Thermal spraying — Tubular coating tensile test**

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## National foreword

This British Standard is the UK implementation of EN 17393:2020.

The UK participation in its preparation was entrusted to Technical Committee STI/40, Thermal spraying and thermally sprayed coatings.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

## Thermal spraying - Tubular coating tensile test

Projection thermique - Essai de traction

Thermisches Spritzen - Schichtzugversuch

This European Standard was approved by CEN on 17 May 2020.

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## European foreword

This document (EN 17393:2020) has been prepared by Technical Committee CEN/TC 240 “Thermal spraying and thermally sprayed coatings”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2021, and conflicting national standards shall be withdrawn at the latest by January 2021.

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## Introduction

The determination of tensile strength of a thermally sprayed coating can be of substantial importance regarding product-supporting quality control as well as coating development and, moreover, can have an effect on important factors such as transfer efficiency, microstructure, surface quality, etc. Only a little effort is required to carry out the tubular coating tensile test (TCT). However, it provides reproducible values for the mechanical strength of sprayed coatings and gives information on influences resulting from spraying conditions.

Microscopic examinations of the fractured surface can provide further information on failure modes and support the quality assessment of the coating microstructure as well as the assessment of influences resulting from loads during the TCT test.