INTERNATIONAL STANDARD 1879

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Instruments for the measurement of surface roughness by the profile method — Vocabulary

Instruments de mesurage de la rugosité des surfaces par la méthode du profil — Vocabulaire

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 57 has reviewed ISO Recommendation R 1879 and found it suitable for transformation. International Standard ISO 1879 therefore replaces ISO Recommendation R 1879-1970.

ISO Recommendation R 1879 was approved by the Member Bodies of the following countries :

Australia	Greece	Poland
Austria	Hungary	Portugal
Belgium	India	Romania
Canada	Israel	South Africa, Rep. of
Chile	Italy	Sweden
Czechoslovakia	Japan	Switzerland
Denmark	New Zealand	United Kingdom
Egypt, Arab Rep. of	Norway	U.S.A.
Germany	Peru	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

France

The Member Bodies of the following countries disapproved the transformation of ISO/R 1879 into an International Standard :

France
United Kingdom

Printed in Switzerland

Instruments for the measurement of surface roughness by the profile method — Vocabulary

1 SCOPE AND FIELD OF APPLICATION

This International Standard defines basic terms relating to all instruments for the measurement of surface roughness by the profile method.

2 TERMS AND DEFINITIONS

2.1 profile method of measurement of the surface roughness : A method of evaluation of surface roughness according to the parameters of its effective profiles.

2.2 instrument for the measurement of surface roughness by the profile method : An instrument for the determination of the parameters of surface roughness by its effective profiles.

2.3 contact (stylus) instrument of progressive transformation of a profile : An instrument used for the measurement of surface roughness by the profile method giving progressive transformation of information about the profile during the mechanical traversing of a stylus along the surface to be measured.

NOTES

1 *Traversing of a stylus may be either continuous or intermittent.*

2 The stylus of an instrument has a prescribed geometrical form and is used for tracing a profile in the process of the transformation of information.

2.4 contactless instrument of progressive profile transformation : An instrument used for the measurement of surface roughness by the profile method, giving progressive transformation of information about the profile without any mechanical contact with the surface being measured.

2.5 contact instrument of instantaneous profile transformation : An instrument used for the measurement of surface roughness by the profile method, giving instantaneous transformation of information about the profile during mechanical contact with the surface being measured.

2.6 contactless instrument of instantaneous profile transformation : An instrument used for the measurement of surface roughness by the profile method, giving instantaneous transformation of information about the profile without any mechanical contact with the surface being measured.