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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1879

INSTRUMENTS FOR THE MEASUREMENT OF SURFACE ROUGHNESS
BY THE PROFILE METHOD

GENERAL STATEMENTS — TERMS AND DEFINITIONS

1st EDITION

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BRIEF HISTORY

The ISO Recommendation R 1879, *Instruments for the measurement of surface roughness by the profile method – General statements – Terms and definitions*, was drawn up by Technical Committee ISO/TC 57, *Surface finish*, the Secretariat of which is held by the Komitet Standartov, Mer i Izmeritel'nyh Priborov pri Sovete Ministrov S.S.S.R. (GOST).

Work on this question led to the adoption of Draft ISO Recommendation No. 1879, which was circulated to all the ISO Member Bodies for enquiry in June 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

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

The following Member Body opposed the approval of the Draft :

France

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

INSTRUMENTS FOR THE MEASUREMENT OF SURFACE ROUGHNESS BY THE PROFILE METHOD

GENERAL STATEMENTS — TERMS AND DEFINITIONS

1. SCOPE

This ISO Recommendation relates to instruments for the measurement of surface roughness by the profile method.

It defines basic terms and statements relating to all the instruments used 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.