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Steels — Micrographic determination of the apparent grain size

Aciers — Détermination micrographique de la grosseur de grain apparente

ISO 643

**Fifth edition
2024-08**

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This fifth edition cancels and replaces the fourth edition (ISO 643:2019), which has been technically revised.

The main changes are as follows:

- the test temperature of McQuaid-Ehn method has been modified for case hardening steels to 950 °C (see [A.4](#));
- [subclause 7.2](#) has been modified with reference to new [Annex B](#) and amended [Table 2](#);
- [Annex B](#) from the third edition (ISO 643:2012) has been reinstated, now with new ISO grain size charts instead of ASTM charts;
- parts of the old Annex B (evaluation method) have been revised and moved to the main body of the standard ([subclause 7.3](#)) and the remainder of the annex has been renumbered as [Annex C](#);
- new [Annexes D](#) and [E](#) have been added.

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