

Steel — Determination of content of non-metallic inclusions — Micrographic method using standard diagrams

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a micrographic method of determining the non-metallic inclusions in rolled or forged steel products, using standard diagrams. This method is widely used to assess the suitability of a steel for a given use. However, since it is difficult to achieve reproducible results owing to the influence of the test operator, even with a large number of samples, precautions should be taken when using the method.

2 PRINCIPLE

Non-metallic inclusions in rolled or forged steels are assessed by comparison with standard diagrams which form the Jernkontoret chart (or JK chart). These diagrams correspond to fields of view of 0,8 mm taken from a longitudinal section and observed with a magnification of 100 X. According to the shape and distribution of the inclusions, the standard diagrams are divided into four main groups, bearing the reference A, B, C and D. The method of designation is not based on the constitution of the inclusions, but on their morphology.

Group A : sulphide type

Group B : alumina type

Group C : silicate type

Group D : globular oxide type

Each main group on the JK chart consists of two sub-groups, each made up of five diagrams representing

increasing contents of inclusions. This division into sub-groups is merely intended to give examples of different thicknesses of non-metallic particles.

The diagrams on the Jernkontoret chart are given in annex A. Plate 1 is taken from the Jernkontoret method and plate 2 from the American Society for Testing and Materials (ASTM) method. These two plates shall not be used simultaneously for the same examination.

These diagrams are numbered 1 to 5 in plate I and 0,5 to 2,5 in plate II, the numbers increasing with the surface area of inclusions; for example, the diagram A2 indicates that the shape of the inclusions observed under the microscope is in accordance with group A and that their distribution and quantity are in accordance with number 2.

This method has been selected for international standardization as being the most widely known using standard diagrams JK or ASTM. By agreement, other tables of standard diagrams (BS4 S100, Diengarten, PN 64 H 04510, Gost 1778-70, VDEh/Stahl-Eisen Prüfblatt 1570-71) may be used. In case of dispute only the method detailed in this International Standard (JK standard diagrams or ASTM standard diagrams) shall be used.

3 SAMPLING

The shape of the inclusion depends to a large extent on the degree of reduction of the steel; therefore, comparative measurements may only be carried out on prepared sections taken from similar samples.

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