

The Influence of Nonmetallic Inclusions on the Mechanical Properties of Steel: A Review

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The literature regarding the influence of nonmetallic inclusions on the mechanical properties of steel is reviewed, with critical comments on various studies. A brief discussion of inclusion rating methods and a synopsis of the effects of applied stress on inclusions in an isotropic, elastic matrix are presented. The parameters considered are tensile strength, impact strength, reduction of area, fatigue properties and fracture toughness. It is concluded that in many applications, the type of inclusions are more important than the total content and as matrix strength increases, the notch effect of inclusions becomes more significant. Also, mechanical properties can be influenced by any one or a combination of the following inclusion parameters; shape, size, quantity, interspacing, distribution, orientation, interfacial strength, and physical properties relative to the matrix.

1. Introduction

Two kinds of nonmetallic inclusions are generally recognised in steel; those which are entrapped in the steel inadvertently and those which separate from it because of a change in temperature or composition [1]. The first type originates almost exclusively from particles of matter that are occluded in the steel while it is in the molten state. The second is produced either in the molten or in the solid state by separation from the steel of oxide, sulphide, nitride or other nonmetallic compounds in the form of droplets or particles, when these compounds are produced in such amounts that their solubility in the metal is exceeded. Since the latter are products of reactions within the steel, they are normal constituents of it. Because ordinary manufacturing processes cannot entirely rid the steel of such inclusions, it is desirable to control their kind and amount within such limits that the steel is relatively free from those inclusions which are considered most injurious. Typical steel making parameters that influence the resulting inclusions are; time of carbon boil, refractory composition, deoxidation practice, composition of the deoxidising alloy additions, tapping and teeming operations [2]. Nonmetallic inclusions typical of steels are illustrated in figs. 1 and 2.

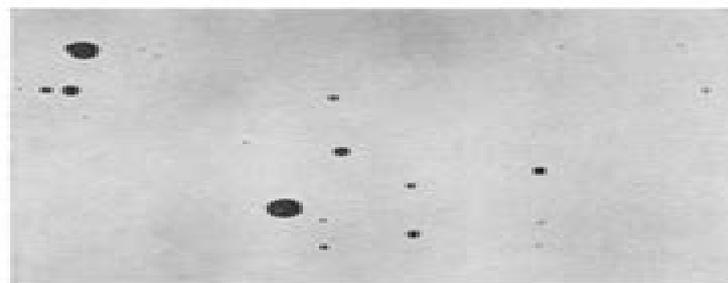


Figure 1 Typical oxide inclusions in low alloy steels ($\times 1000$).

2. Inclusion Measurement

Typical rating systems encountered in this survey are; ASTM-E45 "A" (comparative), Fairey inclusion count (comparative), lineal analysis (direct measurement), SAE method (combination) and ultrasonic detection methods. These methods are representative of rating systems in general use throughout the steel and fabricating industries. Although the procedure for each method varies somewhat, the final results depend heavily on the individual investigator's skill.

Nonmetallic Inclusions In Steel Part V

Annelies Wilder-Smith



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