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AS 1627.9-1989 Metal finishing - Preparation and pretreatment of surfaces - Part 9: Pictorial surface preparation standards for painting steel surfaces

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Abbreviation

AS 1627.9-1989

Valid from

16/05/1989

Information provider

SAI Global

Author

Standards Australia

Information type

Australian Standard

Format

PDF, Hard copy

Cited By

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Description

This Standard describes, using colour photographs, the four grades of rust for steel surfaces, and a number of preparation grades achievable when preparing a surface by either blast cleaning, hand and power tool cleaning, or flame cleaning methods.

This Standard is based on ISO 8501-1:1988, which is based on Swedish standard SIS 05 59 00:1967 and DIN 55 928, Part 4, Supplement 1:1978.

In addition to the photographic examples present in the superseded standard, it contains four photographs and descriptions of flame-cleaned surfaces.

Scope

This Standard is based on ISO 8501-1:1988 and is endorsed as AS 1627.9-1989, this part of AS 1627 specifies a series of rust grades and preparation grades of steel surfaces (see clauses 3 and 4, respectively).

The various grades are defined by written descriptions together with photographs that are representative examples within the tolerance for each grade as described in words. It is applicable to hot-rolled steel surfaces prepared for painting by methods such as blast-cleaning, hand and power tool cleaning and flame cleaning, although these methods rarely lead to comparable results. Essentially, these methods are intended for hot-rolled steel, but blast-cleaning methods, in particular, could also be used on cold-rolled steel of sufficient thickness to withstand any deformation caused by the impact of the abrasive or the effects of power tool cleaning.

This part of ISO 8501 is applicable also to steel substrates that show residues of firmly adhering paint and other foreign matter (see note 2 to 4.1) in addition to residual mill scale.

Note - The preparation grades of previously painted steel surfaces after only localized removal of paint coatings form the subject of ISO 8501-2.

It relates the cleanliness of the surface to its visual appearance. In many instances, this is sufficient for the purpose but for coatings likely to be exposed to severe environments, such as water immersion and continuous condensation conditions, consideration should be given to testing for soluble salts and other invisible contaminants on the visually clean surface by the physical and chemical methods which form the subjects of the various parts of ISO 8502. The roughness characteristics of the surface should also be considered by reference to ISO 8503.

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