

# Elcometer 128 Pictorial Surface Standards



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Elcometer's range of Surface Standards covers most of those required for surface cleanliness.

Surface Standards include:

- BS EN ISO 8501-1:2007/SIS 055900
- BS EN ISO 8501-4:2006
- The SSPC Standard - VIS 1
- The SSPC Standard - VIS 2
- The SSPC Standard - VIS 3
- The SSPC Standard - VIS 4
- The SSPC Standard - VIS 5

Can be used in accordance with

- ASTM D 2200
- IMO MSC.215(82)
- IMO MSC.244(83)
- ISO 8501-1
- SS 55900
- SSPC VIS 1
- SSPC VIS 2
- SSPC VIS 3
- SSPC VIS 4
- SSPC VIS 5
- US Navy NSI 009-32
- US Navy PPI 63101-000

*Standards in grey have been superceded but are still recognised in some industries.*

### Surface Cleanliness

During the initial surface preparation, in addition to brushing or grinding, a coated surface can be blasted, high pressure water-jetted or simply washed down. In many cases, the abrasive media or water is recycled. In these instances, it is important that the level of contaminants in the recycled material is carefully monitored to avoid the re-contamination of the surface being cleaned.

Surface contamination from salt ions such as chlorides, sulphates and nitrates has been shown to lead to delamination, blistering and premature coating failure. The measurement of the cleanliness of a surface prior to the application of a coating is, therefore, necessary to ensure the substrate, or coated surface in multi-layer systems, is clean of all contaminants prior to the application of the next coating.

The visual inspection of a surface is also required and a range of Pictorial Standards has been produced to aid both operators and inspectors.

TECHNICAL SPECIFICATION	
Description	Part Number
<b>BS EN ISO 8501-1:2007/SIS 055900</b> - the original visual standard. It shows the degree of cleanliness of different levels of rusted steel cleaned by blasting, hand and power tools and flame, specified by ASTM D2200 Method A	E128----1
<b>SSPC (Steel Structures Painting Council) VIS 1-01</b> - similar to the Swedish and British standards, but the pictures of the required final appearances match the written descriptions in the USA standards. VISI 1-89 includes photographs of surfaces cleaned using metallic and non-metallic abrasives. Specified by ASTM D2200 Method B	E128----3
<b>SSPC-VIS 3</b> - contains 44 photographs to supplement the written SSPC specifications for hand and power tool cleaning	E128----5
<b>SSPC-VIS 2</b> Standard method of evaluating the degree of rusting on painted steel surfaces	E128----6
<b>SSPC-VIS 4</b> Guide and reference photographs for steel surfaces prepared by waterjetting	E128----7
<b>SSPC-VIS 5</b> Guide and reference photographs for steel surfaces prepared by wet abrasive	E128----8
<b>BS EN ISO 8501-4:2006</b> - preparation of steel substrates before application of paints and related products. Visual assessment of surface cleanliness. Initial surface conditions, preparation grades and flash rust grades in connection with high-pressure water jetting	E128----9

## Related Products



*Elcometer Fitz's Atlas*

### **Elcometer Fitz's Atlas of Coatings Defects**

The Elcometer Fitz's Atlas of Coating Defects (EFA) takes the reader through a comprehensive range of problems and discusses each in detail.



*Elcometer Macaws Pipeline Defects*

### **Elcometer Macaw's Pipeline Defects**

The aim of this publication is to illustrate the range of defects that may be encountered in high pressure steel pipelines and pipeline coatings. The manual gives advice on the probable cause and significance of the defects and comments on appropriate remedial actions.

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