

**SLS ISO 12944 PART 1:2021**  
**(ISO 12944-1:2017)**  
**UDC 667.61**

**PAINTS AND VARNISHES - CORROSION  
PROTECTION OF STEEL STRUCTURES BY  
PROTECTIVE PAINT SYSTEMS -  
PART 1: GENERAL INTRODUCTION**  
*(First Revision)*

**SRI LANKA STANDARDS INSTITUTION**

**Sri Lanka Standard**  
**PAINTS AND VARNISHES - CORROSION PROTECTION OF STEEL STRUCTURES**  
**BY PROTECTIVE PAINT SYSTEMS -**  
**PART 1: GENERAL INTRODUCTION**  
**(First Revision)**

**SLS ISO 12944 PART 1: 2021**  
**(ISO 12944-1:2017)**

**Gr. E**

*Copyright Reserved*  
**SRI LANKA STANDARDS INSTITUTION**  
**No. 17, Victoria Place,**  
**Elvitigala Mawatha,**  
**Colombo 08.**  
**SRI LANKA**

**Sri Lanka Standard**  
**PAINTS AND VARNISHES - CORROSION PROTECTION OF STEEL**  
**STRUCTURES BY PROTECTIVE PAINT SYSTEMS -**  
**PART 1: GENERAL INTRODUCTION**  
**(First Revision)**

## **NATIONAL FOREWORD**

This draft standard was approved by the Sectoral Committee on Building and Construction Materials and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standard Institution on 2021-07-29

This Sri Lanka Standard is identical with **ISO 12944 -1:2017** published by the International Organization for Standardization (**ISO**).

The standard specifies document defines the overall scope of ISO 12944 (all parts). It gives some basic terms and definitions and a general introduction to the other parts of ISO 12944. Furthermore, it includes a general statement on health, safety and environmental protection, and guidelines for using ISO 12944 (all parts) for a given project.

## **TERMINOLOGY AND CONVENTIONS**

The text of the International Standard has been accepted as suitable for publication as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards.

Attention is therefore drawn to the following:

- a) Wherever the “International Standard” appear referring to this standard they should be interpreted as “Sri Lanka Standard”.
- b) Wherever page numbers are quoted, they are “**ISO**” page numbers.
- c) The coma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use a full point on the base line as the decimal marker.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test method or observation shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

## **CROSS-REFERENCES**

### **International standard**

**ISO 4628-2** Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of

### **Corresponding Sri Lanka Standard**

**SLS 1256/32** Methods of test for paints and varnishes - Determination of degree of blistering

INTERNATIONAL  
STANDARD

ISO  
12944-1

Second edition  
2017-11

---

---

**Paints and varnishes — Corrosion  
protection of steel structures by  
protective paint systems —**

Part 1:  
**General introduction**

*Peintures et vernis — Anticorrosion des structures en acier par  
systèmes de peinture —*

*Partie 1: Introduction générale*



Reference number  
ISO 12944-1:2017(E)

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 General introduction to the ISO 12944 series</b> .....	<b>3</b>
4.1 Summary.....	3
4.2 Protective functions covered.....	3
4.3 Field of application.....	3
4.3.1 Overview.....	3
4.3.2 Type of structure.....	4
4.3.3 Type of surface and surface preparation.....	4
4.3.4 Type of environment.....	4
4.3.5 Type of protective paint system.....	4
4.3.6 Type of work.....	4
4.3.7 Durability of the protective paint system.....	5
<b>5 General considerations and requirements</b> .....	<b>5</b>
<b>6 Health and safety and environmental protection</b> .....	<b>6</b>
<b>7 Information on the other parts of ISO 12944</b> .....	<b>6</b>
<b>Annex A (informative) Guidelines for using ISO 12944 (all parts) for a given project</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 14, *Protective paint systems for steel structures*.

This second edition cancels and replaces the first edition (ISO 12944-1:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- some parts of the scope have been moved to [Clause 4](#);
- the terms and definitions which were not used in the main part of the standard have been deleted;
- the normative references have been updated;
- the requirements regarding sample areas have been included;
- [7.8](#) with reference to ISO 12944-9 has been added.
- a bibliography has been added.

A list of all parts in the ISO 12944 series can be found on the ISO website.