

Process Industry Practices Coatings

CTSL1000 Application of Internal Linings

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PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of the Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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Appendix A - Figures

Data Forms

CTSL1000-D1 – Documentation Requirements Sheet

The following data forms shall be part of this practice only if indicated on the purchaser's completed Documentation Requirements Sheet.

CTSL1000-D2 – Lining Selection Criteria – User Defined CTSL1000-D3 –Internal Lining System Data Sheet CTSL1000-F – Daily Inspection Report CTSL1000-T – Inspection and Testing

CTSL1000-T – Inspection and Testing Requirements Sheet

Process Industry Practices

1. Introduction

1.1 Purpose

This Practice provides requirements for installing industrial linings.

1.2 Scope

This Practice describes the general requirements for surface preparation, environmental control, and the installation and inspection of liquid-applied internal linings to metal substrates. This Practice does not cover sheet linings and application of linings to piping.

2. References

Applicable parts of the following Practices, industry codes and standards, and references shall be considered an integral part of this Practice. The edition in effect on the date of contract awards shall be used, except as otherwise noted. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)

 PIP VESV1003 – Fabrication Requirements for Welded Vessels and Tanks to be Lined

2.2 Industry Codes and Standards

- American Society for Testing and Materials (ASTM)
 - ASTM D3359 Standard Test Methods for Measuring Adhesion by Tape Test
 - ASTM D4285 Standard Test Methods for Indicating Oil or Water in Compressed Air
 - ASTM D4417 Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel
 - ASTM D4541 Standard Test Methods for Pull-Off Strength of Coatings Using Portable Adhesion Testers
 - ASTM E337 Standard Test Method for Measuring Humidity with a *Psychrometer (the Measurement of Wet- and Dry-Bulb Temperatures)*
- International Organization for Standardization (ISO)
 - ISO 2178 Non-magnetic coatings on magnetic substrates Measurement of coating thickness Magnetic method
 - ISO 2360 Non-conductive coatings on non-magnetic electrically conductive basis materials - Measurement of coating thickness - Amplitude-sensitive eddy current method
 - ISO 2409 Paints and varnishes Cross-cut test
 - ISO 4624 Paints and varnishes Pull-off test for adhesion
 - ISO 4677-2 Atmospheres for conditioning and testing Determination of relative humidity Part 2: Whirling psychrometer method