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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25197-2010

Welded static non-pressurized thermoplastic tanks

静置常压焊接热塑性塑料储罐（槽）

(English Translation)

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Foreword

This standard EN12573:2000 "was allowed to stand at atmospheric pressure welding thermoplastic tanks (tank)" (in English) the degree of consistency is not equivalent.

Chapter 4 of this standard according to EN12573-1:2000 "was allowed to stand at atmospheric pressure welding thermoplastic tanks (tank) - Part 1. General" (English Chinese Version) redrafted.

Chapter 6 of this standard according to EN12573-2:2000 "was allowed to stand at atmospheric pressure welding thermoplastic tanks (tank) - Part 2. Cylindrical Li Formula Tank Design "(in English) redrafted.

Chapter 7 of this standard according to EN12573-3:2000 "was allowed to stand at

atmospheric pressure welding thermoplastic tanks (tank) - Part 3. single-walled rectangular Reservoir "(in English) redrafted.

Chapter 8 of this standard according to EN12573-4:2000 "was allowed to stand at atmospheric pressure welding thermoplastic tanks (tank) - Part 4. Flanges and their Connection Design "(in English) redrafted.

Appendix C of this standard is a normative appendix, Appendix A, Appendix B, Appendix D, Appendix E, Appendix F and Appendix G is an informative annex.

This standard by the National Standardization Technical Committee of the boiler pressure vessel (SAC/TC262) and focal points.

1 Scope

1.1

standard specifies the standing pressure welding thermoplastic tanks (tank) of the General Regulations, the cylindrical vertical tank design, single-walled rectangular reservoir located Count, flanges and design. The standard also specifies the standing pressure welding thermoplastic tanks (tank) [hereinafter referred to as the tank (tank)] of Material, manufacture, inspection, marking, packaging, transportation and installation.

1.2

This standard applies to the following thermoplastic material tanks (tank), tank (tank) volume in the range of 0.45m³ ~ 80m³.

- a) polyethylene (the PE);
- b) polypropylene (the PP);
- c) polyvinyl chloride (of PVC);
- d) polyvinylidene fluoride (PVDF).

In addition to considering the normal use of hydrostatic pressure 1.3 standard calculations, but also consider the additional pressure due to the fluid delivery caused additional pressure Force limit is.

- a limit) on. 0.0005MPa;
- b) the lower limit. -0.0003MPa.

1.4

This standard applies temperature range of material.

- a) polyethylene. -30 °C ~ 45 °C;
- b) polypropylene. -10 °C ~ 80 °C;

c) PVC. -10 °C ~ 60 °C;

d) poly (vinylidene fluoride). -20 °C ~ 110 °C.

1.5

Chapter 6 standard does not consider the impact of wind and snow loads.

1.6

This standard applies to Chapter 6 of the tank by wrapping extrusion molding, extrusion molding or bending sheet welding.

1.7

Chapter 7 of the applicable standard storage tank can be used with the main ribs of the same material, or other material.

Calculation 1.8 standard Chapter 7 to plate theory, membrane theory for instructions in Appendix A.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

1033.1 Non-plastic foam density measurement GB/T Part 1. Immersion method, liquid pycnometer method and titration method (GB/T 1633.1-2008, ISO 1183-1:2004, IDT) GB /1040.2 T Plastics Determination of tensile properties - Part 2. Test plastics molding and extrusion conditions (GB/T 1042.2-2006, ISO 5272:1993, IDT) GB/T 1043.1 Determination of plastic Charpy impact properties - Part 1. Non-instrumented impact test (GB/T 1043.1-2008, ISO 179-1:2000, IDT) GB/T 1633 thermoplastic softening point (Vicat) Test Method (GB/T 1633-2000, idt ISO 306:1994) GB/T 1844.1 Plastics - Symbols and abbreviations - Part 1. Basic polymers and their special characteristics (GB/T 1844.1-2008, ISO 1043-1:2001, IDT) GB/T 2035 plastic terms and their definitions (GB/T 2035-2008, ISO 472:1999, IDT) Determination of GB/T 3682 thermoplastic melt flow rate and melt volume flow rate