

Australian Standard™

**Tubes (stainless steel) and tube fittings  
for the food industry**

**Part 4: Clamp liners with gaskets**



**S t a n d a r d s** Australia

This Australian Standard was prepared by Committee FT-012, Dairy Factory Equipment. It was approved on behalf of the Council of Standards Australia on 30 December 2000 and published on 13 March 2001.

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The following interests are represented on Committee FT-012:

- Australian Chamber of Commerce and Industry
- Australian Dairy Products Federation
- Australian Stainless Steel Development Association
- Dairy Food Safety, Victoria
- Dairy Industry Association of Australia
- Dairy Industry Authority of Western Australia
- Dairy Process Engineering Centre
- Safe Food Production, N.S.W
- Queensland Dairy Authority

Additional interests participating in the preparation of this Standard:

- Stainless Steel Tube Manufacturers

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**Tubes (stainless steel) and tube fittings  
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**Part 4: Clamp liners with gaskets**

Original as AS N32—1960.  
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## PREFACE

This Standard was prepared by the Standards Australia Committee FT-012, Dairy Factory Equipment, to supersede AS 1528.4—1976.

This is Part 4 of a series of Standards for tubes (stainless steel) and tube fittings for the food industry. The other Standards in the series are as follows:

AS

1528 Tubes (stainless steel) and tube fittings for the food industry

1528.1 Part 1: Tubes

1528.2 Part 2: Screwed couplings

1528.3 Part 3: Butt weld tube fittings

The objective of this revision is—

- (a) to include other welded-type clamp liner dimensions such as 12.7 mm, 19.1 mm, 152.4 mm and 203.2 mm;
- (b) to include additional gasket dimensions such as 12.7 mm, 19.1 mm, 152.4 mm and 203.2 mm; and
- (c) to delete appendices that are no longer required by the industry.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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STANDARDS AUSTRALIA

**Australian Standard**

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**1 SCOPE**

This Standard applies to welded-type and expanded-type clamp liners and gaskets in tube couplings for effecting joins in pipelines in food processing plants. It specifies the materials, dimensions, and surface finish requirements.

This Standard excludes the operational requirements of the product.

A cross-section of clamp coupling assembly is given in Appendix A.

**2 APPLICATION**

Clamp liners in tube couplings for the food industry are intended to be used with stainless steel tubes specified in AS 1528.1.

**3 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS

1528 Tubes (stainless steel) and tube fittings for the food industry

1528.1 Part 1: Tubes

1654 ISO system of limits and fits (series)

2074 Steel castings

ISO

4288 Geometrical Product Specifications (GPS)—Surface texture: Profile method—Rules and procedures for the assessment of surface texture

**4 DEFINITIONS**

For the purposes of this Standard the following definitions apply:

**4.1 Clamp**

Ring-shaped tube coupling part with taper-sided channel section.

**4.2 Clamp liner**

Flanged tube coupling part, with one conical face to provide means for connecting mating liners.

**4.3 Clamp tube coupling**

Coupling with two liners intended for joining tube ends together by means of a clamp.

**4.4 Expanded-type clamp liner**

Clamp liner to be attached to a tube end by expanding.