

**ANSI®**  
**B65/NAPIM 177.2-2006**  
**(Revised 2017)**

## **AMERICAN NATIONAL STANDARD**

# **Safety standard — Printing ink vertical post mixers**

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SECRETARIAT  
NPES THE ASSOCIATION FOR SUPPLIERS OF PRINTING, PUBLISHING  
AND CONVERTING TECHNOLOGIES

APPROVED SEPTEMBER 15, 2017  
AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

# **B65**



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## Foreword

This is a revision of ANSI B65/NAPIM 177.2-2006, *American National Standard for Printing Ink Vertical Post Mixers — Safety Requirements*, which was developed under the administration of the National Association of Printing Ink Manufacturers (NAPIM). Responsibility for this standard has since been transferred to the ANSI-accredited B65 Committee, under the administration of NPES The Association for Suppliers of Printing, Publishing and Converting Technologies. The revision of this standard is being conducted under the B65 Committee, with assistance from NAPIM.

The B65 Committee was accredited by the American National Standards Institute in 1983 to develop safety standards for the printing and publishing industry.

The B65 Committee recommends the voluntary adoption and use of this standard by the printing industry and its suppliers. It is hoped that individual companies will not only use it in the purchase of new equipment, but will also apply the requirements of this standard during any major change or alternation of existing equipment.

It is recommended that this standard, or applicable parts of it, be referenced in purchase orders for equipment, when appropriate, thus making its provisions a part of the purchase contract. It is also recommended that this standard be a part of the total safety program in the workplace. Application of this standard will promote safety, and management at all levels is urged to recommend its implementation.

Requests for interpretation must be sent in writing to the B65 Secretariat. This request will be forwarded to the appropriate committee, which will review the request in accordance with the B65 Committee Procedures for Interpretations and will provide a written response. A statement, written or oral, that is not processed in accordance with the procedures noted above will not be considered the official position of the B65 Committee, and should not be relied upon as a Formal Interpretation.

Suggestions for improving this standard are welcome. They should be sent to the B65 Secretariat, NPES The Association for Suppliers of Printing, Publishing and Converting Technologies, 1899 Preston White Drive, Reston, VA 20101-4367.

This standard was prepared and approved by B65 Subcommittee 6 (Ink Making Equipment Safety). Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this revision, the B65 SC6 had the following membership:

Chairman – George Fuchs  
Secretary – Debbie Orf

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Colorcon  
Joules Angstrom  
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Mr. Jon Hatz  
Mr. George Fuchs

### Representative

## **Introduction**

The purpose of this standard is to provide standardized guidance, advice and recommendations to both equipment designers and equipment operators aimed at reducing the risk of injury to personnel during the operation of vertical post mixers.

The information contained in this standard is intended to be used in conjunction with the development, implementation and maintenance of process-specific in-house safe operating procedures, safety training, inspection and maintenance programs, and other accepted means of minimizing hazards associated with the operation of vertical post mixers.



## Safety standard — Printing ink vertical post mixers

### 1 Scope

The requirements of this standard apply to vertical post mixers designed to be used in the production and manufacturing of printing inks. The purpose of this standard is to establish safety requirements with respect to the design and operation of vertical post mixers for batches larger than 4 gallons or mixers over 3 HP.

### 2 Effective date

The effective date of this standard shall be 1 year after its approval date as an American National Standard.

### 3 Existing equipment

All existing vertical post mixers shall be brought into compliance with this standard by January 1, 2020, unless otherwise noted.

**Exception:** If existing equipment changes ownership and location, before the equipment is placed into service it shall comply with the provisions of this standard.

### 4 Rebuilt equipment

When existing vertical post mixers are rebuilt, the rebuilder shall bring the machinery into compliance with this standard.

### 5 Normative references

The following normative documents contain provisions that, through reference in this text, constitute provisions of this standard. The latest edition of the normative document referred to applies.

ANSI/NFPA 70, *National Electrical Code*

ANSI/NFPA 79, *Electrical Standard for Industrial Machinery*

ANSI Z535.4, *Product Safety Signs and Labels*

IEC 60204-1, *Safety of machinery — Electrical equipment of industrial machines — Part 1: General requirements*

ISO 12100-2, *Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles*

OSHA 29 CFR 1910.147, *The control of hazardous energy (lockout/tagout)*, available from <http://www.osha.gov>