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AMERICAN NATIONAL STANDARD

Safety standard — Three-roll printing ink mills

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

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NPES The Association for Suppliers of Printing, Publishing and Converting Technologies
1899 Preston White Drive
Reston, Virginia 20191-4367

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Foreword

This is a revision of B65/NAPIM 177.1-2007, *American National Standard for Three-Roller Printing Ink Mills — Safety Requirements*, 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, Virginia 20191.

This standard was prepared by B65 Subcommittee 6 (Ink-Making Equipment Safety) and was processed and approved for submittal to ANSI by the members of B65 SC6. Committee approval of the standard does not necessarily imply that all committee members voted for its approval.

At the time it approved this revision, B65 SC6 had the following personnel:

Chairman – George Fuchs
Secretary – Debbie Orf

Organization

Buhler Inc.
Chemical Research Technology
Colorcon
Joules Angstrom
Individual Expert
INX International
Keith Machinery Corporation
National Association of Printing Ink Manufacturers

Representative

Mr. Patrik Maeder
Mr. John Tingué
Mr. Gerald Napiecek
Ms. Lisa Fine
Mr. Neal Grownéy
Mr. James Bailen, Mr. Kevin Cochran, Mr. Joseph Cichon
Mr. Jon Hatz
Mr. George Fuchs

Introduction

The purpose of this standard is to provide standardized guidance, advice and recommendations to both equipment designers, equipment operators (referred to in this standard as authorized persons), and equipment owners aimed at reducing the risk of injury to personnel during the operation of three-roll printing ink mills.

The information contained in this document 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 three-roll printing ink mills.

Safety standard — Three-roll printing ink mills

1 Scope

The requirements of this standard apply to all three-roll mills used for the manufacturing of printing inks or similar materials used in the printing ink manufacturing industry. The purpose of this standard is to establish safety requirements with respect to safety controls, operating procedures and design of three-roll mills used for the manufacturing of printing inks.

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 three-roll mills shall be brought into compliance with this standard by January 1, 2020, unless otherwise noted.

NOTE: Small-scale (twelve 12 inches or less), non-production mills are excluded from sections 8.4, 8.5 and the nip-point interlock requirement (only) in section 10.2.

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

4 Rebuilt equipment

When existing three-roll mills are rebuilt, the owner of the three-roll mill 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. At the time of publication, the editions indicated were valid. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below.

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 1910.23(c)(1), *Guarding floor and wall openings and holes*