

ANSI/ASSP Z9.6-2018

Exhaust Systems for Grinding, Polishing
and Buffing



AMERICAN SOCIETY OF
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ANSI®
ANSI/ASSP Z9.6 – 2018

American National Standard

**Exhaust Systems for
Grinding, Polishing and Buffing**

Secretariat

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, Illinois 60068

Approved December 3, 2018

American National Standards Institute

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American National Standard

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Foreword (This Foreword is not a part of American National Standard Z9.6 – 2018.)

A standard for ventilation of grinding, polishing and buffing equipment was originally developed by the Industrial Hygiene Codes Committee of the American Foundrymen's Association (now known as the American Foundrymen's Society, or AFS) and was approved by the Board of Directors of that organization on December 4, 1936. Realizing that grinding, polishing and buffing equipment is used in many industries, and wishing to make technical material used by the foundry industry more widely available, the American Foundrymen's Association submitted this standard to the American Standards Association (now ANSI) for approval as an American National Standard. ASA referred the standard to the Z9 Committee on Exhaust Systems, a canvass of interested parties was conducted by letter ballot, and the standard was issued as Z43.1-1941 on August 14, 1941.

The Dust Control Committee of the American Foundrymen's Society revised and updated the standard, submitted the revision to the American Standards Association, and it was reissued under the guidance of the Z9 committee as Z43.1-1966. ANSI withdrew the standard in 1988 when no further work was done on it. The Z9 Committee, however, believed it was important to maintain this consensus information and chartered a Z9.6 subcommittee in 1992 to rewrite Z43.1 as ANSI Z9.6. This new standard provided updated information on ventilation for grinding, polishing and buffing operations that conforms to current accepted practices.

New technology and research continues to change this field and it is hoped that future versions of the standard will reflect this growth in knowledge. Suggestions for improvement are welcome. They should be sent to the American Society of Safety Professionals, 520 N. Northwest Highway, Park Ridge, Illinois 60068.

How to Read This Standard

The standard is presented in two-column format. The left column presents the requirements of the standard; the right column provides clarifications, exceptions and explanations of the requirements plus "how to comply" information.

Figures 1-15 are incorporated as part of the standard.

Standard requirements should be considered minimum criteria and can be adapted to the needs of the user establishment. Demonstrably equal or better approaches are acceptable. When deviating from the standard, documentation should be provided.

The standard is auditable by those trained in ventilation. An audit form is provided in the appendix.

Suggestions for improvement of this standard are welcome. They should be sent to the American Society of Safety Professionals, 520 N. Northwest Highway, Park Ridge, Illinois 60068.

This standard was developed and approved for submittal to ANSI by the Z9 Accredited Standards Committee on Health and Safety Standards for Ventilation Systems. Consensus was reached through a process involving the entire Z9 Committee in a series of reviews and in the final vote of approval. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the Z9 Committee had the following members:

Theodore Knutson, MS, P.E., Chair
 Geoffrey Raifsnider, P.E., Vice Chair
 Ovidiu Munteanu, Secretary
 Timothy R. Fisher, CSP, CHMM, ARM, CPEA, Assistant Secretary
 Jennie Dalesandro, Administrative Technical Support

Organization Represented

Name of Representative

American Foundry Society	Robert Scholz
American Industrial Hygiene Association	Thomas Slavin, CIH, CSP, CSHM, CPEA
American Society of Safety Professionals	Lou DiBerardinis, CIH, CSP
	Paul Osley, P.E., CSP, CIH, CHMM
	Jeffrey Nesbitt, CIH, CSP
ASHRAE	Thomas Smith
AstraZeneca	Victor D'Amato
	Matthew Thomas
Burton, D. Jeff	D. Jeff Burton, P.E.
Covestro LLC	Terry Ketchum
Figuroa, Crescente	Crescente Figuroa, Ph.D., CIH
Global Finishing Solutions	Geoffrey Raifsnider, P.E.
	Brian Schadrie, P.E.
Job Safety Associates, LLC	Peter Engelbert, CIH, CSP, CHST, CET
Knutson Ventilation Inc.	Theodore Knutson, MS, P.E.
	Gerhard Knutson, Ph.D., CIH
National Association for Surface Finishing	Kyle Hankinson
	Kenneth Hankinson
National Institute for Occupational Safety & Health	Michael Elliott, Ph.D., P.E., CIH
National Institutes of Health	Farhad Memarzadeh, Ph.D., P.E.
NorthWest Occupational Health & Safety	Neil McManus, DSc, CIH, ROH, CSP
Price, John	John (Jack) Price
Robson Forensic, Inc.	Ronald Schaible, CSP, CIH
Rutgers University	Alejandro Ruiz, CIH, CSP, CHMM, CET, SMS
Saint-Gobain Abrasives Inc.	Holly Colt
Sheehy, John	John Sheehy, Ph.D.
Sherwin-Williams Company	Brian Haynack
	Jay Dick
	Daniel Kallin

Independent Experts & Observers:

El Group, Inc.	Lindsay Cook
U.S. Department of Labor - OSHA	James Nelson, P.E.

Subgroup Z9.6 had the following members:

Theodore Knutson, MS, P.E. (Chair)
 Gerhard Knutson, Ph.D., CIH (Vice Chair)
 D. Jeff Burton, P.E.
 Brian Haynack
 Geoffrey Raifsnider, P.E.