

**ANSI B11 TR 2-1997**

# **ANSI Technical Report**

*Mist Control Considerations for the  
Design, Installation and Use of  
Machine Tools Using Metalworking Fluids*

**ANSI B11 TR 2-1997**

ANSI Technical Report  
for Machine Tools –

**Mist Control Considerations for the  
Design, Installation and Use of  
Machine Tools Using Metalworking Fluids**

Secretariat  
**AMT - The Association For Manufacturing Technology**

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## **Foreword**

The Machine Tool Safety Standards Committee (B11) of the American National Standards Institute formed a subcommittee consisting of professionals that are involved in manufacturing, higher education, industrial hygiene, safety, and design to develop guidelines for the control of airborne contaminants associated with metalworking. The subcommittee operates under the auspices of AMT-The Association For Manufacturing Technology, located in McLean, Virginia.

Publication of this ANSI Technical Report has been approved by the Accredited Standards Developer, AMT-The Association For Manufacturing Technology. This document is registered as a Technical Report series of publications according to the *Procedures for the Registration of ANSI Technical Reports*. This document is not an American National Standard and the material contained herein is not normative in nature. Comments on the content of this document are welcome and should be sent to AMT-The Association For Manufacturing Technology, 7901 Westpark Drive, McLean, VA, 22102, Attention: Safety Department.

There are several informative annexes at the end of this technical report which are used for clarification, illustration, and general information.

The B11 Parent Voting Committee had the following members at the time it approved this technical report.

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The B11 Subcommittee on Mist Control which developed this technical report had the following members;

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**ANSI B11 TR 2-1997  
Mist Control**

**1 SCOPE**

**1.1 Scope**

**1.1.1** This document provides guidelines for a uniform approach to the control of airborne contaminants generated by stationary machine tools used to cut and form materials.

**1.1.2** Control shall be through the proper design, installation, use, and maintenance of the machine tool and its support systems (such as, but not limited to metalworking fluid delivery systems and air cleaning equipment).

**1.1.3** Airborne contaminants can be generated due to: tool action, workpiece action, metalworking fluid movement and characteristics, and thermal conditions.

**1.1.4** These guidelines are meant to be used as a whole and should not be considered in part.

**1.2 Inclusions**

**1.2.1** Cutting operations

**1.2.2** Machining

**1.2.3** Grinding

**1.2.4** Microfinishing

**1.2.5** Cold forming

**1.2.6** Transfer machines

**1.2.7** Part or pallet wash-off stations using coolant

**1.3 Exclusions**

**1.3.1** Deburring machines

**1.3.2** Parts washing machines

**1.3.3** Rolling mills

**1.3.4** Stamping operations

**1.3.5** Drawing operations

**1.3.6** All machining operations that are dry

**1.3.7** Roll forming machines

**1.3.8** Presses