
Standards Secretariat
Acoustical Society of America
335 East 45th Street
New York, New York 10017

**AMERICAN NATIONAL STANDARD
Estimating Airblast Characteristics for Single Point
Explosions in Air, With a Guide to Evaluation of
Atmospheric Propagation and Effects**

ABSTRACT

This standard provides consensus quantitative definitions of explosion characteristics for a single point explosion in air, along with methodologies for scaling these characteristics for a wide range of yield and ambient air conditions. Factors for use with common solid explosives are also included. Methods are provided for predictions of long range propagation under atmospheric refractive influences. Target damage estimation procedures are provided for use in explosion operation planning and evaluation.

AMERICAN NATIONAL STANDARDS ON ACOUSTICS

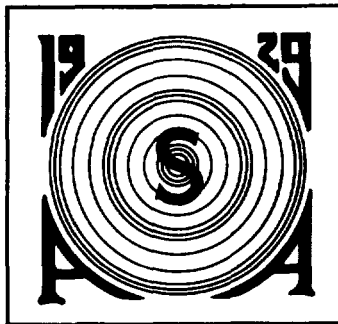
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This standard was approved by the American National Standards Institute as ANSI S2.20-1983 on 1 March 1983.

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FOREWORD

[This Foreword is not a part of American National Standard Estimating Airblast Characteristics for Single Point Explosions in Air, with a Guide to Evaluation of Atmospheric Propagation and Effects, S2.20-1983 (ASA Catalog No. 20-1983).]

This standard is the first in a planned series of definitions, standards, and specifications for use in airblast acoustics. It has been developed under the American National Standards Institute by the Standards Committee Method of Procedure under the American National Standards Committee S2, whose Secretariat is held by the Acoustical Society of America.

American National Standards Committee S2, under whose jurisdiction this standard was developed, has the following scope:

Standards, specifications, methods of measurement and test, and terminology, in the fields of mechanical shock and vibration, but excluding those aspects which pertain to biological safety, tolerance, and comfort.

At the time this standard was submitted to Standards Committee S2 for approval, the membership was as follows:

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Working Group S2-54, on Atmospheric Blast Effects, which assisted the Committee in preparing the standard, had the following members:

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Suggestions for improvements in this standard will be welcomed. They should be sent to the Standards Secretariat, Acoustical Society of America, 335 East 45th Street, New York, NY 10017.