



ASTM INTERNATIONAL
Helping our world work better

100 Barr Harbor Drive
P.O. Box C700
West Conshohocken, PA
19428-2959
USA

tel +1.610.832.9500
fax +1.610.832.9555
memserv@astm.org
www.astm.org

ASTM International Technical Committee G02 on Wear and Erosion

Scope

The promotion of knowledge, stimulation of research, formulation of terminology, guides, practices, and development of standard methods of testing data analysis. The activities relate to wear, friction, and erosion, which may include forms of surface damage of materials and structures.

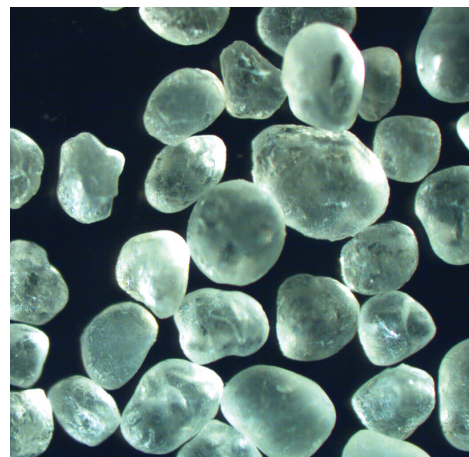
The areas of interest of the Committee shall be the response of solids to mechanical interactions that occur due to relative motion between a solid material and a contacting substance or substances. This includes surface-to-surface or particle-to-surface sliding or rubbing, flow of fluids or slurries, impingement by liquid jets, drops, or solid particles, and cavitation of contacting liquids. These phenomena sometimes coexist, interact, or overlap with somewhat related phenomena, such as corrosion or lubrication. Where applicable and appropriate, the work of the Committee will be coordinated with other ASTM committees and other organizations having mutual interests, including ASTM Committees G01 on Corrosion of Metals and D02 on Petroleum Products and Lubricants, ASMI, ASME, SAE, STLE, ISO, and others.

Subcommittees

- G02.10 Erosion by Solids and Liquids
- G02.30 Abrasive Wear
- G02.40 Non-Abrasive Wear
- G02.50 Friction
- G02.90 Executive
- G02.91 Terminology
- G02.93 Editorial

Key Documents

- G65 Standard Test Method for Measuring Abrasion Using the Dry Sand/Rubber Wheel Apparatus
- G76 Standard Test Method for Conducting Erosion Tests by Solid Particle Impingement Using Gas Jets
- G99 Standard Test Method for Wear Testing with a Pin-on-Disk Apparatus
- G115 Standard Guide for Measuring and Reporting Friction Coefficients
- G190 Standard Guide for Developing and Selecting Wear Tests
- G223 Standard Test Method for Measuring Friction and Adhesive Wear Properties of Lubricated and Nonlubricated Materials Using the Twist Compression Test (TCT)



Quick Facts

Established 1964

Number of Members 85

Number of Standards 32

Global Participation 17

Countries represented

The standards are available in

Volumes 03.02 in the *Annual Book of ASTM Standards*

Meetings G02 meets twice each year, in May and November

Staff Manager

Jennifer Tursi
ASTM International
Headquarters
100 Barr Harbor Drive
West Conshohocken, PA 19428
USA
tel +1 610.832.9653
jtursi@astm.org



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www.astm.org/committee-g02

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