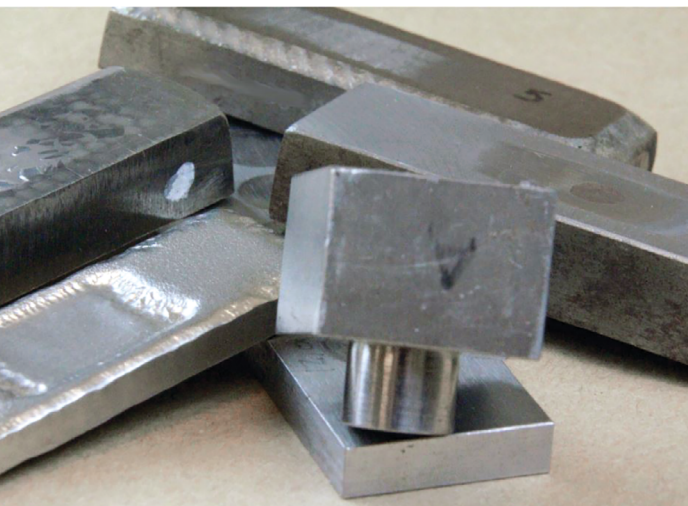


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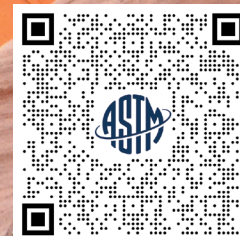
July 2023



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Committee G02 Wear and Erosion

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Formed in 1964, Committee G02 focuses on the promotion of knowledge, stimulation of research, formulation of definitions and terminology, and development of methods of testing and data analysis, relating to wear, friction, and erosion of materials and structures. The committee, with a membership of approximately 100 technical experts, oversees 34 international standards that cover various topics related to wear and erosion. Thirteen countries participate with the G02 committees providing additional information of current topics, upcoming technologies, and discussions for increasing knowledge of materials and development of relevant solutions to understand and characterize wear, erosion and friction.

Subcommittees

G02.10 Erosion by Solids and Liquids

G32 — Standard Test Method for Cavitation Erosion Using Vibratory Apparatus

G73 — Standard Test Method for Liquid Impingement Erosion Using Rotating Apparatus

G76 — Standard Test Method for Conducting Erosion Tests by Solid Particle Impingement Using Gas Jets

G134 — Standard Test Method for Erosion of Solid Materials by Cavitating Liquid Jet

G211 — Standard Test Method for Conducting Elevated Temperature Erosion Tests by Solid Particle Impingement Using Gas Jets

G02.30 Abrasive Wear

B611 — Standard Test Method for Determining the High Stress Abrasion Resistance of Hard Materials

G56 — Standard Test Method for Abrasiveness of Ink-Impregnated Fabric Printer Ribbons and Other Web Materials [Side Note: Currently under revision]

G65 — Standard Test Method for Measuring Abrasion Using the Dry Sand/Rubber Wheel Apparatus

G75 — Standard Test Method for Determination of Slurry Abrasivity (Miller Number) and Slurry Abrasion Response of Materials (SAR Number)

G81 — Standard Test Method for Jaw Crusher Gouging Abrasion Test

G105 — Standard Test Method for Conducting Wet Sand/Rubber Wheel Abrasion Tests

G132 — Standard Test Method for Pin Abrasion Testing

G171 — Standard Test Method for Scratch Hardness of Materials Using a Diamond Stylus



34 Published G02 Standards



13 Countries Participate in G02 Committees



All approved G02 standards are published annually in Volume 03.02 of the *Annual Book of ASTM Standards*. Standards are available in hard copy, virtual volume format, and are available for purchase online at www.astm.org. The scopes of all ASTM standards can be viewed on the ASTM website.

G174 — Standard Test Method for Measuring Abrasion Resistance of Materials by Abrasive Loop Contact

G195 — Standard Guide for Conducting Wear Tests Using a Rotary Platform Abraser

G02.40 Non-Abrasive Wear

G77 — Standard Test Method for Ranking Resistance of Materials to Sliding Wear Using Block-on-Ring Wear Test

G98 — Standard Test Method for Galling Resistance of Materials

G99 — Standard Test Method for Wear Testing with a Pin-on-Disk Apparatus

G119 — Standard Guide for Determining Synergism Between Wear and Corrosion

G133 — Standard Test Method for Linearly Reciprocating Ball-on-Flat Sliding Wear

G137 — Standard Test Method for Ranking Resistance of Plastic Materials to Sliding Wear Using a Block-On-Ring Configuration

G176 — Standard Test Method for Ranking Resistance of Plastics to Sliding Wear Using Block-on-Ring Wear Test—Cumulative Wear Method

G196 — Standard Test Method for Galling Resistance of Material Couples

G204 — Standard Test Method for Damage to Contacting Solid Surfaces under Fretting Conditions

G206 — Standard Guide for Measuring the Wear Volumes of Piston Ring Segments Run against Flat Coupons in Reciprocating Wear Tests

G223 — Standard Test Method for Measuring Friction and Adhesive Wear Properties of Lubricated and Nonlubricated Materials Using the Twist Compression Test (TCT)

G02.50 Friction

G115 — Standard Guide for Measuring and Reporting Friction Coefficients

G164 — Standard Test Method for Determination of Surface Lubrication on Flexible Webs

G181 — Standard Test Method for Conducting Friction Tests of Piston Ring and Cylinder Liner Materials Under Lubricated Conditions

G182 — Standard Test Method for Determination of the Breakaway Friction Characteristics of Rolling Element Bearings

G203 — Standard Guide for Determining Friction Energy Dissipation in Reciprocating Tribosystems

G219 — Standard Guide for Determination of Static Coefficient of Friction of Test Couples Using an Inclined Plane Testing Device

G02 .91 Terminology

G40 — Standard Terminology Relating to Wear and Erosion



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