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 35 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.

Committee G02 includes 5 technical subcommittees that oversee 35 published standards published in Volume 3.02 of the Annual Book of ASTM Standards.
Subcommittees

G02.10  Erosion by Solids and Liquids
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

G02.30  Abrasive Wear
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 (Millier Number) and Slurry Abrasion Response of Materials (SAR Number)
G81 Standard Test Method for Jaw Crusher Gouging Abrasion Test
G105-16 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
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
G176 Standard Test Method for Ranking Resistance of Plastics to Sliding Wear Using a Block-on-Ring Wear Test—Cumulative Wear Method
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

G02.50  Friction
G115 Standard Guide for Measuring and Reporting Friction Coefficients
G164 Standard Test Method for Determination of Surface Lubrication on Flexible Webs
G203 Standard Guide for Determining Friction Energy Dissipation in Reciprocating Tribosystems

G02.91  Terminology
G40 Standard Terminology Relating to Wear and Erosion
G190 Standard Guide for Developing and Selecting Wear Tests

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.