

ASTM INTERNATIONAL Helping our world work better

IMDRF Stakeholder Forum

September 2022

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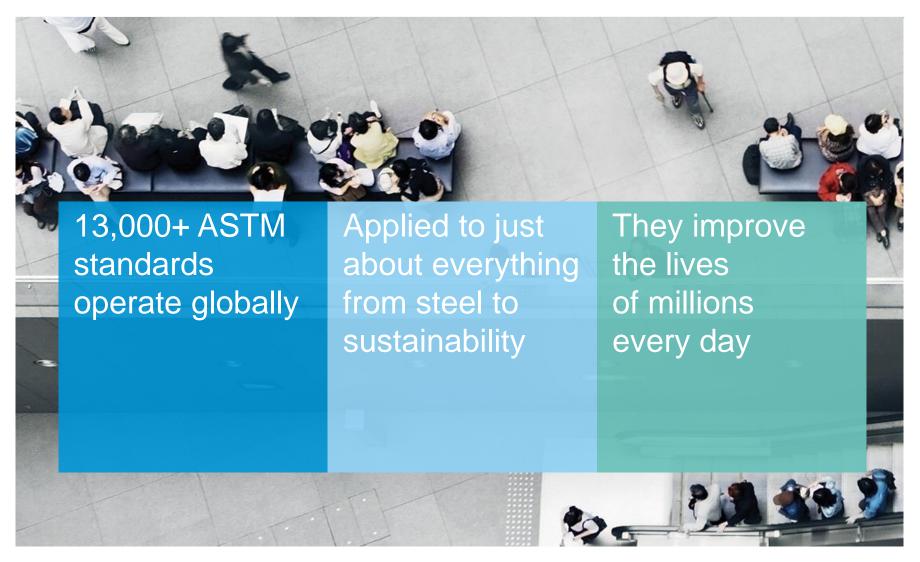
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Helping Our World Work Better





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ASTM by the Numbers



30,000+

global ASTM members in over 148 countries participating in ASTM 90

industry sectors represented and 80% of world commodity trade affected by standards 147

main committees

2,030

subcommittees

6,700+

ASTM standards have been adopted, used as a reference, or used as the basis of national standards outside the USA

52

proficiency testing programs involve 4,700 Laboratories and 6,500 units of participation 58% of participation from outside USA 120+

memorandums
of understanding with
national standards
bodies and regional
groups around the world

1,500

people trained annually across 145 ASTM courses 13,000+

volume of international standards

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2021 OECD Case Study of ASTM International



- Developed in the context of the OECD Partnership of International Organisations for Effective International Rule-Making
- Studies ASTM International's standard-setting practices and related governance mechanisms
- It contributes to the OECD's analytical work on international rulemaking with the perspective of an atypical form of international organization
- The report cites ASTM's "unique membership structure", "open participation" and "inclusive and representative decision-making process" as features that enable ASTM International to quickly develop standards in fast-moving markets.





ASTM International standard-setting activities

"Quick to react to emerging areas in need of standardisation action, notably around key new production technologies." -OFCD



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Committee F04 on Medical Devices



Scope

- Development of standardized nomenclature and definitions of terms, test methods, recommended practices, guides, specifications and performance standards for medical and surgical materials and devices
- Encourage research in this field and sponsor symposia, workshops and publications to facilitate the development of such standards
- Promote liaison with other ASTM Committees and other organizations with mutual interests

Subcommittees Include (34 Total)

- Orthopaedic Devices
- Medical/Surgical Devices
- Tissue Engineered Medical Products
- Cardiovascular

- Cell Signaling
- Neurosurgical
- Urological
- Etc.

Committee F04 on Medical Devices



Noteworthy Members Include (among 1,000+)

- Government Agencies
 - Brazil INMETRO
 - Canada NRC
 - China NMPA
 - Japan AIST
 - U.K. MHRA
 - U.S. FDA and NIST

- Private Sector
 - 3M, Abbott, Boston Scientific
 - Johnson & Johnson
 - Medtronic, Pfizer
 - Stryker, WL Gore
 - SpineServ

Full List of Members' Home Countries

- Africa and Middle East: Israel
- Asia/Oceania: Australia, China, India, Japan, Korea, New Zealand, Malaysia, Philippines, Thailand, Vietnam
- Europe: Austria, Czechia, Finland, France, Germany, Ireland, Italy, Netherlands,
 Portugal, Spain, Sweden, Switzerland, UK
- Latin America: Brazil, Colombia, Peru
- North America: Canada, Mexico, USA

Committee F04 on Medical Devices



New/Recent Standards of Note

- F3570-22, Standard Terminology Relating to Microphysiological Systems
- F3504-21, Standard Practice for Quantifying Cell Proliferation in 3D Scaffolds by a Nondestructive Method
- F3574-22, Standard Test Methods for Sacroiliac Joint Fusion Devices
- F3505-21, Standard Test Method for Stent and Endovascular Prosthesis Kink Resistance
- F3438-21, Standard Guide for Detection and Quantification of Cleaning Markers (Analytes) for the Validation of Cleaning Methods for Reusable Medical Devices

Draft Standards (Work Items, WKs) of Note

- WK74668, Standard Guide for Bioinks and Biomaterial Inks Used in Bioprinting Tissue-Engineered Medical Products
- WK70410, Standard Test Method for Formula for a Cleaning Agent Intended to Clean Clinically-Used Stainless Steel Medical Device Soiled with Dried Blood
- WK78091, Standard Guide for Identification of Risks Associated with the Manufacturing and Use of Absorbable Polymer Based Implants
- WK70031, Standard Practice for Clinically Relevant Preconditioning of Polymer-based Bearing Materials for Non-Clinical Testing of Joint Arthroplasty Devices

Successful ISO/TC 150 and ASTM F04 Workshop on Duplication



Coordination among SDOs and across Committees

- In June 2022, ASTM and ISO hosted a virtual workshop on reducing standard duplication for medical devices, testing and materials
- Duplication can occur across SDOs and even within the same SDO, causing waste of member resources, in addition to identical, different or conflicting requirements between standards, leading to confusion in the marketplace
- Workshop identified ways to avoid future duplication and address existing duplication, for example using an Action Plan Report developed by the members
- "Mirror" committees will work together to monitor and manage duplication moving forward, with the goal of enhancing medical devices standards for all stakeholders

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ASTM Keys for Health Technologies



Technical Committees

- D11 on Rubber and Rubber-like Materials
- D13 on Textiles
- D20 on Plastics
- E55 on Pharmaceutical Manufacturing
- E56 on Nanotechnology
- F04 on Medical and Surgical Devices
- F23 on Personal Protective Equipment
- F42 on Additive Manufacturing
- F48 on Exoskeletons and Exosuits

Centers of Excellence (Research-to-Standards)

- Additive Manufacturing
- Exo and Exoskeleton Technology

main committees plus 2,030+ subcommittees

PPE-Related Activities



ASTM Global Collaboration Forum to Advance Personal Protective Equipment (PPE) Safety, Quality and Innovation

- Identifying, discussing market, data, and standards needs
- Open to participation
- See <u>https://astmppecollaboration.org</u>. Next meeting: October 5, 2022

ASTM-IFC MOU on Development and Dissemination of Knowledge on PPE Standards and Compliance Globally

 Working to provide awareness, capacity building, standards cooperation, and good international practices related to PPE

APEC SCSC03 2021S Project on Addressing "Last Mile" of AM Use for PPE – Assisting Regulators

 Project concluded June 2022. Report shares recommendations for standards that support AM for PPE and swabs

ASTM Supports Convergence



- Technical cooperation agreements with other international standards bodies like ISO and IEC
- MoUs support technical cooperation with over 120 regional and national standards bodies
- UNECE Declaration on Gender Responsive Standards (2019)
- UNECE initiative on Standards for the SDGs
- OECD Partnership of International Organizations (with ISO, WIPO, WTO)
- Advocating globally for policies that allow regulators flexibility to chose standards based on important attributes such as technical quality, relevance, and suitability to task
- Recognized by OECD as a unique contributor to international regulatory cooperation (2021 Case Study)

ASTM at Its Core



- Open and Transparent in deliberations, global in scope and reach
- Direct and balanced participation for all
- Keep science in and politics out
- Promote choosing standards based on merit
 - Ultimate measures of worth are technical quality and market relevance
 - Respect the choices of the market and needs of stakeholders

The most innovative companies in the world demand flexibility and choice in standards so that they can offer exciting new products and services that meet emerging demands of the marketplace.

By enabling prosperity, innovation, and safety, ASTM helps our world work better!



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Thank you! Questions?

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