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Histórico da ASTM

- Foi fundada em 1898
- É reconhecida como líder no desenvolvimento e publicação de normas técnicas internacionais
- Desenvolve, publica e distribui normas técnicas para aproximadamente 100 setores do mercado
- Suas normas são aplicáveis a materiais, sistemas, produtos e serviços
- Conta com 143 comitês principais

Membros da ASTM

- A ASTM conta com mais de 30.000 membros, em mais de 125 países – 80 membros no Brasil
- Seus membros representam fabricantes ou produtores, usuários, consumidores, órgãos governamentais e a comunidade acadêmica
- Seus membros tem poder de voto nos comitês em que estiverem inscritos

Estudante: torne-se um membro da ASTM gratuitamente através da CAPES

ASTM International

- As universidades de todo Brasil, desde 2009, têm acesso ao conteúdo **ASTM - *American Society for Testing and Materials***
- Conteúdo disponibilizado pelo Portal de Periódicos CAPES:
 - **Standards:** Mais de 12.000 normas técnicas ativas
 - **Digital Library:** Mais de 1.400 livros, 30.000 documentos, e 430.000 páginas de informação

O que é uma Norma Técnica?

Uma norma técnica (ou padrão) é um documento, normalmente produzido por um órgão oficialmente acreditado para tal, que **estabelece regras, diretrizes, ou características para de um material, produto, processo ou serviço.** (Wikipédia)

Normas Técnicas

- Contêm especificações de qualidade (terminologia, métodos de ensaio, etc.)
- São elaboradas pelo **CONSENSO** das partes interessadas
- Estão embasadas nos resultados da experiência, e no desenvolvimento tecnológico.

Tipos de Normas

Todas as normas técnicas da ASTM seguem os mesmos procedimentos rigorosos de aprovação.

Os diferentes tipos de normas técnicas da ASTM são:

- **Especificações** – uma série explícita de **requerimentos que um material**, um produto, um sistema, ou um serviço deve satisfazer
- **Práticas** – uma série de **instruções para se realizar uma ou mais operações** específicas

Tipos de Normas

- **Guias** – informações que não chegam a recomendar uma ação específica
- **Classificações** – uma **organização sistemática** ou divisão de materiais, produtos, sistemas, ou serviços em grupos de características similares, tais como a **origem**, a **composição** ou o **uso**
- **Terminologia** – um documento que compreende definições de termos, explicações de símbolos, abreviações etc

Tópicos

1. Produtos de ferro e aço
2. Produtos de metais não-ferrosos
3. Métodos de provas/testes para metais e procedimentos analíticos
4. Construção
5. Produtos do petróleo, lubrificantes e combustíveis fósseis
6. Pinturas, revestimentos e hidrocarbonetos aromáticos
7. Têxteis
8. Plásticos
9. Borracha
10. Isolamentos elétricos e eletrônicos
11. Tecnologia de água e meio-ambiente
12. Energia solar, nuclear e geotérmica
13. Equipamentos e serviços médicos
14. Métodos gerais e instrumentação
15. Produtos gerais, especialidades químicas e produtos acabados

Relevância das Normas ASTM

- **Muitas Normas ASTM são as regulamentações definitivas em seus campos**
- Mais Normas de concreto que ACI e ISO
- Mais Normas de petróleo que API e IS
- As Melhores Normas em Plásticos, Pintura, Pneus, Borrachas e Metais
- Mais Normas de Provas/Testes que qualquer outra organização no mundo

A que áreas se aplicam



- Desenho e design
- Produção
- Materiais
- Projetos de Engenharia
- Manutenção
- Qualidade
- ISO
- Comércio Internacional
- **Inovação**

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- Nonferrous Metal Products
- Metals Test Methods and Analytical Procedures
- Construction
- Petroleum Products, Lubricants, and Fossil Fuels
- Paints, Related Coatings, and Aromatics
- Textiles
- Plastics
- Rubber
- Electrical Insulation and Electronics
- Water and Environmental Technology
- Nuclear, Solar, and Geothermal Energy
- Medical Devices and Services
- General Methods and Instrumentation
- General Products, Chem. Spec., End Use Products

Os 15 tópicos de trabalho, apresentados anteriormente

Sub-Tópicos

Sub-Topic		
Activated Carbon		
Adhesives		
Advanced Ceramics		
Aerospace and Aircraft		
Air Quality		
Amusement Rides and Devices		
Analytical Chemistry for Metals, Ores and Related Materials	Electrical and Electronic Insulating Materials	
Anesthetic and Respiratory Equipment	Electrical Conductors	
Aromatic Hydrocarbons and Related Chemicals	Electrical Insulating Liquids and Gases	
Biological Effects and Environmental Fate	Electrical Protective Equipment for Workers	
Biotechnology	Electronics	
Building Seals and Sealants	Emergency Medical Services	
Business Imaging Products	Engine Coolants	
Carbon Black	Environmental Acoustics	
Catalysts	Environmental Assessment, Risk Management	Industrial and Specialty Chemicals
Cement	Fasteners	Iron Castings
Ceramic Whitewares and Related Products	Fatigue and Fracture	Laboratory and Inspection Agency Accreditation
Chemical-Resistant Nonmetallic Materials	Fences	Laboratory Apparatus
Coal and Coke	Fiber-Reinforced Cement Products	Leather
	Fire Standards	Light Metals and Alloys
	Flexible Barrier Materials	Light Sport Aircraft
	Food Service Equipment	Lime
	Forensic Psychophysiology	Livestock, Meat, and Poultry Evaluation Systems
	Forensic Sciences	Magnetic Properties
	Gaseous Fuels	Manufactured Masonry Units
		Mechanical Testing
		Medical and Surgical Materials and Devices
		Metal Powders and Metal Powder Products
		Metallic and Inorganic Coatings
		Metallic-Coated Iron and Steel Products
		Metallography
		Molecular Spectroscopy and Separation Science
		Mortars and Grouts for Unit Masonry

Os sub-tópicos com todas as áreas/assuntos cobertas pelas normas

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<p><i>This specification covers general requirements for ferritic alloy steel, austenitic alloy steel, and stainless steel tubes. The steel shall be made by any process. The material shall conform to the tensile property requirements prescribed in the individual pr...</i></p>			
View	A182/A182M-10	Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service	<input type="checkbox"/>
<p><i>This specification covers forged or rolled alloy and stainless steel pipe flanges, forged fittings, and valves and parts for high-temperature service. After hot working, forgings shall be cooled to a specific temperature prior to heat treatment, which shall...</i></p>			
View	A666-10	Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar	<input type="checkbox"/>
<p><i>This specification covers austenitic stainless steels in the annealed and normally required cold-worked conditions. They shall be formed in different shapes such as sheets, strips, plates and flat bars. The steels shall...</i></p>			

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Carbon **Steel** and 316L **Stainless Steel** in Oxygen Gas Mixtures
MC Ilroy K., Zawierucha R.

January 1989 -- STP1040

10.1520/STP24919S

(0.125 INCH) DIAMETER MATERIAL: 311LSTAINLESSSTEEL CHAMBER: 1 ~ mm (4INCH)DIAMETER I 10 I 20
PRESSURE, M PB I 30 40 IO' FIG. 7 - **Stainless steel** flammability as a function of oxygen purity and gas
pressure (small chamber, diluent gas - nitrogen). 0 99.7 + ~ 1,000 PRESSURE, psig 2,000 3,000 I I 4,000 5,000 I
I 9 BURN O NO BURN 1 .~ 70- 0 ~ 60- ~ I ~400 3020. 100 ~ 10 STATICCONDmONS BALANCE OF ...

Comparison of Both Creep Resistance and Material Properties of High-Strength Low-Alloy
Steel and **Stainless Steel**

10.1520/JTE102369

valuation, Vol. 37, No. 4 Paper ID

Goran Turkalj,3 and Marko

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ASTM A182/A182M-10

A182/A182M-10 Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service

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Abstract

This specification covers forged or rolled alloy and stainless steel pipe flanges, forged fittings, and valves and parts for high-temperature

Visualização da Norma

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Farny Jamie, Behie William

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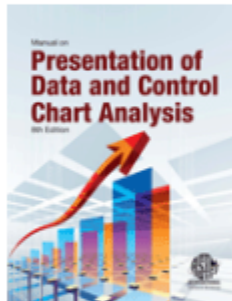
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MNL7-8TH
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