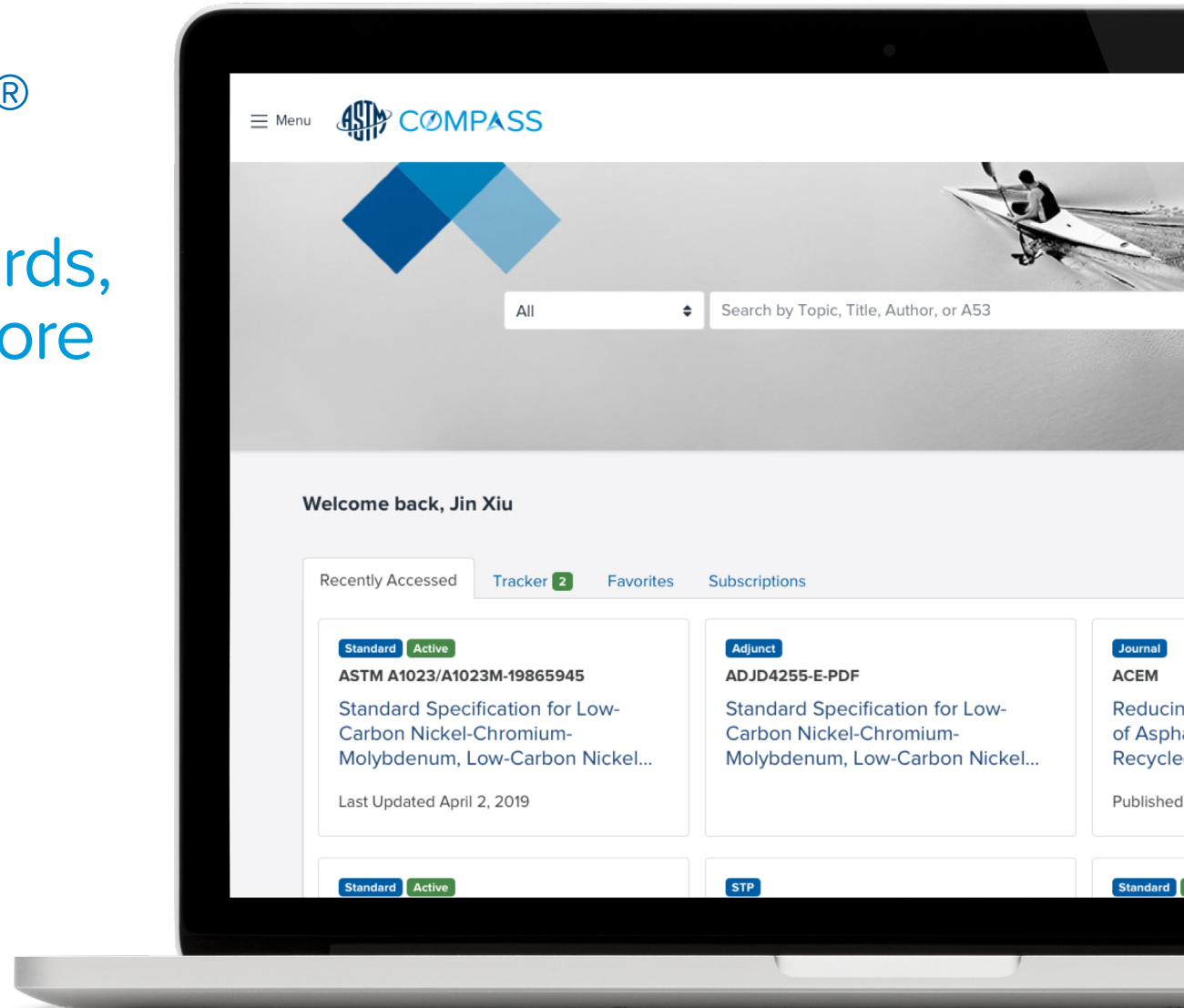# ASTM COMPASS®

Your Portal for Standards, Testing, Learning & More

Quick Reference Guide

Thank you for subscribing to ASTM Compass® — an easy-to-use solution for accessing, managing and sharing technical information organization-wide.

Combining proven industry standards and technical publications with intuitive management tools, ASTM Compass enables you tackle mission-critical work with a greater expertise, speed and efficiency.
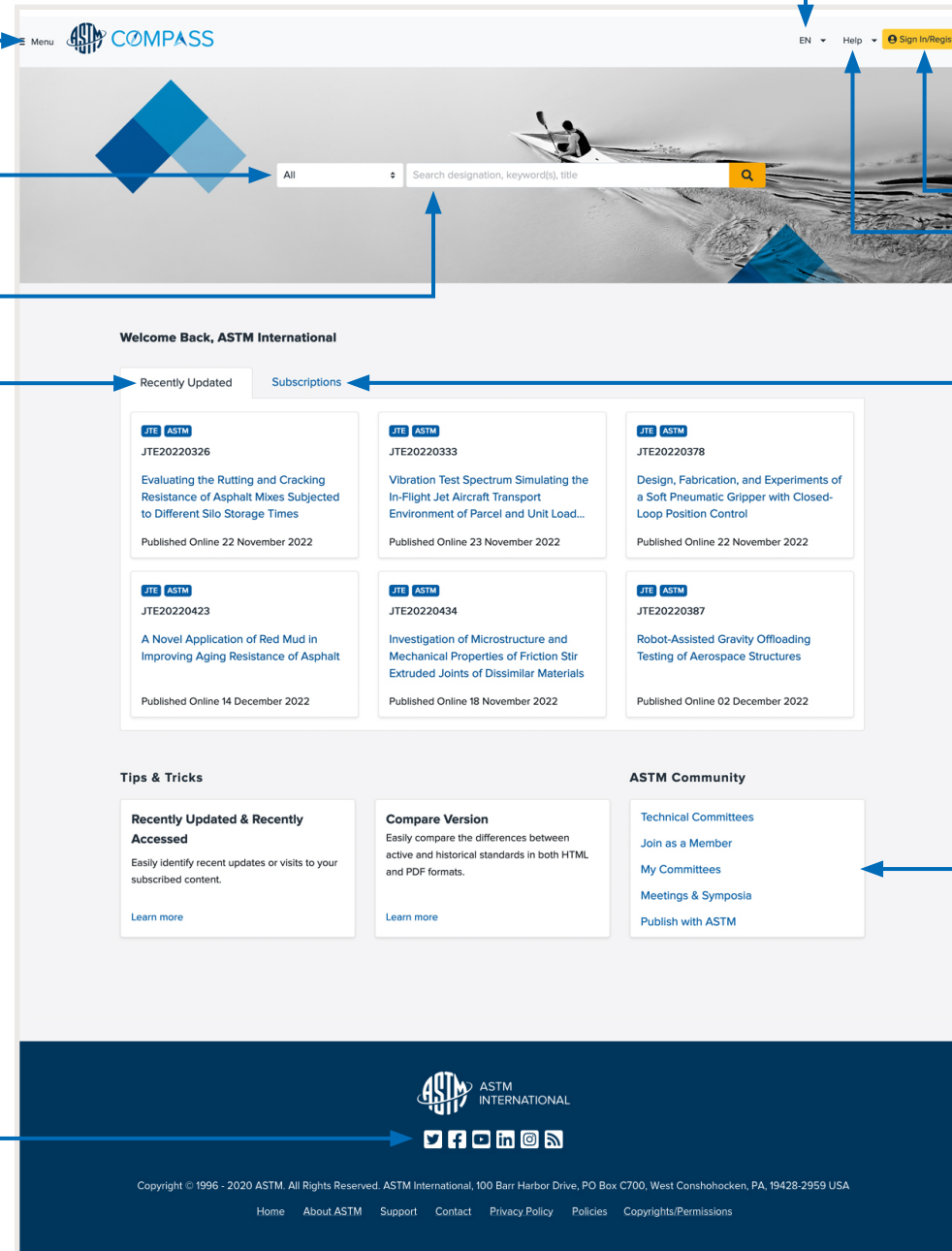
go.astm.org/compass

Navigation
Click here to navigate the different collaboration features of ASTM Compass®

Search
Select specific collection from which to search.

Search
Type in your standard designation or other search terms here.

Recently Updated
Here you'll find new changes to standards.

Social Media
See content published on ASTM International's social media platforms.

Languages
Choose language for your dashboard here.

Personalized Account
Find details about your account, including your name, email, address and phone number.

Help & Support
Contact customer service or watch video tutorials here.

Subscriptions
Access your content from specific publishers here.

ASTM Community
From Technical Committees: Explore all of ASTM's standards development groups here.

Membership: Learn about how to become an ASTM member here.

MyASTM: Access your member content here.

Meetings & Symposia: Find out about upcoming events here.

Publish with ASTM: Learn about how to get your research included in an ASTM publication.

Menu **ASTM COMPASS**

EN ▾ Help ▾ 🔒 Sign In/Register

All ▾ | Search designation, keyword(s), title 🔍

Welcome Back, ASTM International

Recently Updated | Subscriptions

JTE ASTM
JTE20220326
Evaluating the Rutting and Cracking Resistance of Asphalt Mixes Subjected to Different Silo Storage Times
Published Online 22 November 2022

JTE ASTM
JTE20220333
Vibration Test Spectrum Simulating the In-Flight Jet Aircraft Transport Environment of Parcel and Unit Load...
Published Online 23 November 2022

JTE ASTM
JTE20220378
Design, Fabrication, and Experiments of a Soft Pneumatic Gripper with Closed-Loop Position Control
Published Online 22 November 2022

JTE ASTM
JTE20220423
A Novel Application of Red Mud in Improving Aging Resistance of Asphalt
Published Online 14 December 2022

JTE ASTM
JTE20220434
Investigation of Microstructure and Mechanical Properties of Friction Stir Extruded Joints of Dissimilar Materials
Published Online 18 November 2022

JTE ASTM
JTE20220387
Robot-Assisted Gravity Offloading Testing of Aerospace Structures
Published Online 02 December 2022

Tips & Tricks

Recently Updated & Recently Accessed
Easily identify recent updates or visits to your subscribed content.
Learn more

Compare Version
Easily compare the differences between active and historical standards in both HTML and PDF formats.
Learn more

ASTM Community
Technical Committees
Join as a Member
My Committees
Meetings & Symposia
Publish with ASTM

ASTM INTERNATIONAL

Navigation
Click here to navigate the different collaboration features of ASTM Compass®

Search
Select specific collection from which to search.

Search
Type in your standard designation or other search terms here.

Recently Updated
Here you'll find new changes to standards.

Social Media
See content published on ASTM International's social media platforms.

Menu ASTM COMPASS

EN ▾ Help ▾ Sign In/Register

All ▾ Search designation, keyword(s), title 🔍

Welcome Back, Uat Stage

Recently Accessed | Tracker | Favorites | Subscriptions

Standard ASTM Active
D2216-19
Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
Last Updated Mar 19, 2019

Standard ASTM Active
A1-00(2018)
Standard Specification for Carbon Steel Tee Rails
Last Updated Sep 27, 2018

Standard ASTM Withdrawn
D5079-08
Standard Practices for Preserving and Transporting Rock Core Samples (Withdrawn 2017)
Last Updated Jan 10, 2017

Standard ASTM Active
F2933-21a
Standard Consumer Safety Specification for Crib Mattresses
Last Updated May 24, 2022

Standard ASTM Historical
F2933-21
Standard Consumer Safety Specification for Crib Mattresses
Last Updated Oct 01, 2021

Standard ASTM Active
E2933-21
Standard Specification for Stationary Point Chemical Vapor Detectors (SPCVD) for Homeland Security...
Last Updated Sep 23, 2021

Tips & Tricks

Recently Updated & Recently Accessed
Easily identify recent updates or visits to your subscribed content.
Learn more

Compare Version
Easily compare the differences between active and historical standards in both HTML and PDF formats.
Learn more

ASTM Community
Technical Committees
Join as a Member
My Committees
Meetings & Symposia
Publish with ASTM

ASTM INTERNATIONAL

Copyright © 1996 - 2020 ASTM. All Rights Reserved. ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA, 19428-2959 USA

Home About ASTM Support Contact Privacy Policy Policies Copyrights/Permissions

Languages
Choose language for your dashboard here.

Personalized Account
Find details about your account, including your name, email, address and phone number.

Help & Support
Contact customer service or watch video tutorials here.

Subscriptions
Access your content from specific publishers here.

ASTM Community
From Technical Committees: Explore all of ASTM's standards development groups here.

Membership: Learn about how to become an ASTM member here.

MyASTM: Access your member content here.

Meetings & Symposia: Find out about upcoming events here.

Publish with ASTM: Learn about how to get your research included in an ASTM publication.

All ASTM Books and Journals content, as well as standards, may be downloaded and printed as per license agreement.

Download a standard here.

Historical versions are also listed under each full-titled active standard.

Search results will indicate whether the document is active, historical, or withdrawn. You'll notice these labels above the document title.

☰ Menu   COMPASS   Help ▾   👤 Jin Xiu ▾

All ▾   Search by Topic, Title, Author, or A53   🔍

📌 Track Document   ☆ Add to Favorites   ⬇ Download   ⊡ Compare Versions

Standard **Active**   Last Updated: Feb 22, 2017   Translation: English ▾   Other Versions ▾

ASTM A1023/A1023M-19865945

Standard Specification for Low-Carbon Nickel-Chromium-Molybdenum, Low-Carbon Nickel Steel Ropes

| HTML | PDF | Work Items | Visual Content | Related Content |

This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

In This Standard

Section 1 Scope

Section 2 Referenced Documents

Section 3 Terminology

Section 4 Ordering Information

Section 5 Material

Section 6 Rope Properties and Tolerances

Section 7 Rope Workmanship and Finish

Section 8 Testing and Compliance

Section 9 Packaging and Identification

Section 10 Keywords

SUMMARY OF CHANGES

Footnotes

1. Scope

1.1 This specification covers the general requirements for the more common types of steel wire ropes. Included in this specification are wire ropes in various grades and constructions from 1/4 in. [6 mm] to 31/2 in. [89 mm] manufactured from uncoated or metallic coated wire. Also included are cord products from 1/32 in. [0.8 mm] to 3/8 in. [10 mm] manufactured from metallic coated wire. For specific applications, additional or alternative requirements may apply.

1.2 The values stated in either inch-pounds or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the specification.

1.3 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:2

A931 Test Method for Tension Testing of Wire Ropes and Strand

A1007 Specification for Carbon Steel Wire for Wire Rope

Use the HTML view of a document when you prefer to view the text larger than is provided in the typeset PDF view of the document. With both types of documents, you may download a copy to your device.

Select two versions of a document to compare, choose "compare" and the results will appear on the page. You can always choose "edit" to change the compared version. You'll quickly identify new additions to a document as indicated by the green highlighted text. Pink highlighted text with a strikethrough let you know what text has been removed in the newest version of a standard.

Compass Points allows you to create a customized link to capture critical parts of a standard PDF, building a breadcrumb trail to that source data.

Share the link throughout your collaboration and embed in your workflows.

Save your Compass Point with relevant information such as overlays or diffs.

Note the programmatic metadata included with each Compass Point, including the specific version of the standard.

Your Compass Point selection is reproduced in the metadata window for your reference so you do not have to toggle back to the main PDF while working on your metadata.

Name your Compass Point semantically to align with Project codes, ERP documents, product numbers, part numbers, test procedures, or any other useful data for holistic retrieval.

View Compass Point

Publisher: ASTM
Designation: D86-20a
Created: 2022-12-15 13:43:00
Created By: Uat Stage [uat_stage@yopmail.com]
Compass Point Selection:

9.1 Temperature Measurement System—Temperature measurement systems using other than the specified mercury-in-glass thermometers shall exhibit the same temperature lag, emergent stem effect, and accuracy as the equivalent mercury- in-glass thermometer. C... Show More

Compass Point Name

Shell site X

Description

Be sure that manufacturing and procurement are aligned regarding heat analysis testing.

Overlays/Diffs

Confirmation of systems shall be performed by the first of each month.

Share

Compass Point URL

https://stage-compass.astm.org/compasspoint/4c9fl   Copy

ⓘ A new version of this standard is available. OPTION: User can create a new Compass Point in the new standard, resulting in a new URL for that updated version.

Go to the New Version

Close

Insert this URL into any document or requirement management system for easy redirect back to the authoritative source.

If the standard is updated, your metadata window will be automatically updated to notify you that this is not the active version of the standard.

This menu includes all Compass Points created for this specific version of the standard.

After your Compass Point is saved you can retrieve the metadata from the ellipse or by clicking on the icons below the highlight.

Another place to retrieve your Compass Points is directly from the Menu.

From here you will find all Compass Points created and saved by you.

Menu:

✕ Close

Home

Subscriptions ⌄

Tracker

Favorites

Compass Points

Groups

eLearning ↗

Custom Collection

Technical Committees ↗

Join as a Member ↗

My Committees ↗

Meetings & Symposia ↗

Publish with ASTM ↗

Help ▾ Jin Xiu

Search by Topic, Title, Author, or A53 🔍

⚑ Track Document   ☆ Add to Favorites   ⬇ Download   ⊞ Compare Versions

d: Oct 08, 2020   Translation: English ▾ | Versions ▾ | Document Details

...od for Distillation of Petroleum Products and Liquid Fuels at ...ure

...deo Content   Related Content   Compass Points List

View   Compass Points   🔍 🗩 ⚙

CP   CP ▾

ing devices shall be conducted by distilling toluene in accordance with Group 1 of this test method and comparing the 50 % recovered temperature with that shown in Table 4.[7]

9.1.2.1 If the temperature reading is not within the values shown in Table 4 for the respective apparatus being used (see Note 11 and Table 4), the temperature measurement system shall be considered defective and shall not be used for the test.

NOTE 10—Toluene is used as a verification fluid for calibration; it will yield almost no information on how well an electronic measurement system simulates the temperature lag of a liquid-in-glass thermometer.

9.1.2.2 Reagent grade toluene and hexadecane (cetane), conforming to the specifications of the Committee on Analytical Reagents of the American Chemical Society,[8] shall be used.

[7] Supporting data have been filed at ASTM International Headquarters and may be obtained by requesting Research Report RR:D02-1580. Contact ASTM Customer Service at service@astm.org.
[8] ACS Reagent Chemicals, Specifications and Procedures for Reagents and Standard-Grade Reference Materials, American Chemical Society, Washington, DC. For suggestions on the testing of reagents not listed by the American Chemical Society, see Analar Standards for Laboratory Chemicals, BDH Ltd., Poole, Dorset, U.K., and the United States Pharmacopeia and National Formulary, U.S. Pharmacopeial Convention, Inc. (USPC), Rockville, MD.

...ystem—Temperature mea... the specified mercury-in-... the same temperature lag, ...as the equivalent mercury-... of the calibration of these ...ll be made at intervals of ...ter the system has been

9.1.1 The accuracy and the calibration of the electronic circuitry or computer algorithms, or both, shall be verified by

7

Search comments

Sort: Position ▾

Page 7

CP Uat Stage
Dec 15, 1:41 PM
Shell site X

D86 – 20a

TABLE 4 True and Min and Max D86 50 % Recovered Boiling Points (°C)[A]

| | | Manual | | Automated | |
		Distillation conditions min D86 50 % boiling point	Distillation conditions max D86 50 % boiling point	Distillation conditions min D86 50 % boiling point	Distillation conditions max D86 50 % boiling point
Toluene	ASTM/IP true boiling point	Group 1, 2, and 3	Group 1, 2, and 3	Group 1, 2, and 3	Group 1, 2, and 3
	110.6	105.9	111.8	108.5	109.7
Hexadecane	ASTM/IP true boiling point	Group 4	Group 4	Group 4	Group 4
	287.0	272.2	283.1	277.0	280.0

[A] The manual and automated temperatures show in this table are the values for the 95 % tolerance interval for the 99 % population coverage. The proposed tolerance is approximately 3× sigma. Information on the values in this table can be found in RR:D02-1580.

However, other grades may also be used, provided it is first ascertained that the reagent is of sufficient purity to permit its use without lessening the accuracy of the determination.

NOTE 11—At 101.3 kPa, toluene is shown in reference manuals as boiling at 110.6 °C when measured using a partial immersion thermom-

10.2 Groups 1 and 2—Ensure that the sample is conditioned in accordance with Table 2. Fit a low range thermometer provided with a snug-fitting cork or stopper of silicone rubber, or equivalent polymeric material, tightly into the neck of the sample container and bring the temperature of the sample to the

ASTM INTERNATIONAL

🐦 📘 ▶ in 📷 📡

To share documents with more than one person at your organization, you may want to create a group. Follow these steps to select which people to add as members to your group.

1
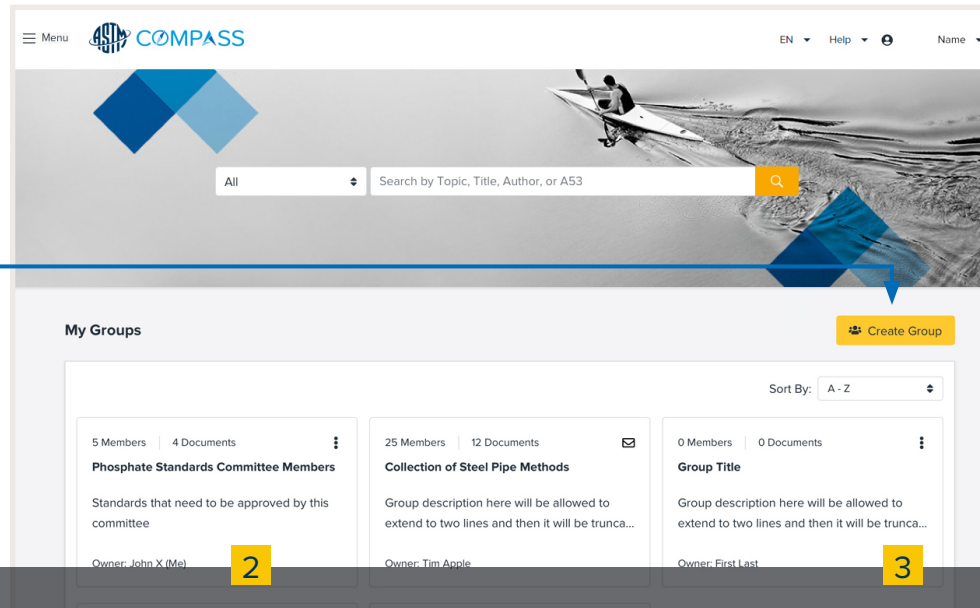
Create Group   ✕

(1 of 3) Add name and description

Group Name

Enter group name

Group Description

Enter a brief description of your group

Close   Next

2

Create Group   ✕

(2 of 3) Add group members

Compass Members   Group Members

🔍 Search first or last name

☐ Tim Apple
☐ Jessica Jones   →
☐ John Doe   No items to display
☐ Linda X   ←
☐ Sam Lowry
☐ Harry Tuttle

Select All

Back   Close   Next

3

Create Group   ✕

(3 of 3) Add group documents

Compass Documents   Group Documents

🔍 Search documents

☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand...   →
☐ A500/A500M-20 Stand...   No items to display
☐ A500/A500M-20 Stand...   ←
☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand...

Select All
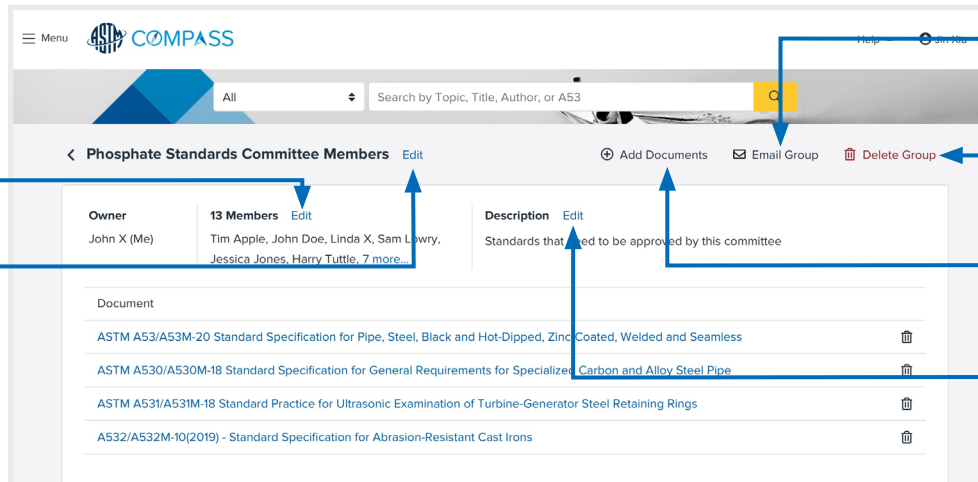
Back   Close   Create

Email group members here.

Delete the entire group here.

Edit group members here.

Add documents to the group here.

Edit the group's description here.

≡ Menu COMPASS   Help Jin Xiu

All ⬍   Search by Topic, Title, Author, or A53   🔍

‹ Phosphate Standards Committee Members Edit   ⊕ Add Documents   ✉ Email Group   🗑 Delete Group

Owner   13 Members Edit   Description Edit
John X (Me)   Tim Apple, John Doe, Linda X, Sam Lowry,   Standards that need to be approved by this committee
               Jessica Jones, Harry Tuttle, 7 more...

Document

ASTM A53/A53M-20 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless   🗑

ASTM A530/A530M-18 Standard Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe   🗑

ASTM A531/A531M-18 Standard Practice for Ultrasonic Examination of Turbine-Generator Steel Retaining Rings   🗑

A532/A532M-10(2019) - Standard Specification for Abrasion-Resistant Cast Irons   🗑

1

Edit Group   ✕

(1 of 3) Update name and description

Group Name

Phosphate Standards Committee Members

Group Description

Standards that need to be approved by
this committee in the case that the
committee has reviewed each standard
and followed the accurate procedures

You've reached the 255 character limit

                                Close   Next

2

Edit Group   ✕

(2 of 3) Update group members

Compass Members   Group Members

🔍 Search first or last name   🔍 Search first or last name

☐ Carol Danvers   ☐ Tim Apple
☐ Jessica Drew   ➡   ☐ John X
☐ Kamala Khan   ⬅   ☐ Jessica Jones
☐ Alex X   ☐ John Doe
☐ Sam Lowry   ☐ Linda X
☐ Harry Tuttle

Select All   Select All

Back   Close   Next

3

Edit Group   ✕

(3 of 3) Update group documents

Compass Documents   Group Documents

🔍 Search documents   🔍 Search documents

☐ A500/A500M-20 Stand...   ☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand... ➡ ☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand... ⬅ ☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand...   ☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand...
☐ A500/A500M-20 Stand...

Select All   Select All

Back   Close   Update

Many standards have instructional videos demonstrating proper execution of test methods.

If a test method contains a video, there will be a tab underneath the title that reads "Video Content."

Additional guidance can be found in **Video Tutorials** and **More Resources** in the **Help** tab.

COMPASS

Your Portal for Standards, Testing, Learning & More

Have additional questions, concerns or suggestions?
sales@astm.org | tel +1.877.909.2786