

Embracing Technology



For 50 years ASTM's position has been to identify and harness technologies in publishing to

- Automate editing and composition
- Minimize risk of error
- Serve members with new tools
- Meet the needs that customers express for greater efficiencies



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ASTM International



Factors Driving ASTM Direction

- Customer-Driven Product Development
- Industry/VOC
- Enabling Technologies—NISO STS
- Interoperability/New Partnerships
- Improved Discoverability
- Changing Reseller Relationships
- Increased Efficiency/New Support Systems
- Remaining RELEVANT...."The Long Game"

ASTM International



Voice of the Customer

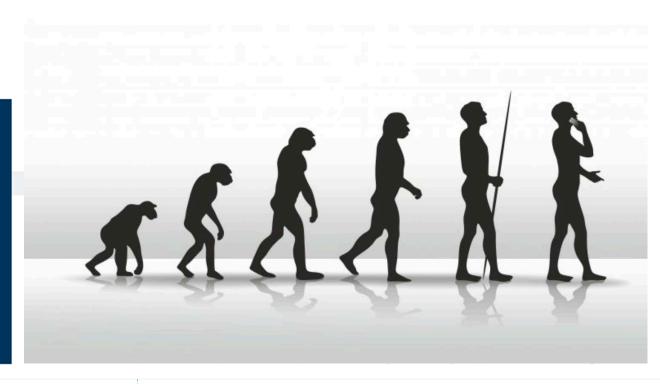
Reached out to members and customers with

- Web Surveys,
- Phone Surveys
- Conference Calls/Webinars
- On-site focus groups
- Members and non-members from
- Industry, Government, Academia
- Attendees were QA Engineers and Executives, Other Engineers, Librarians



ASTM INTERNATIONAL
Evolution of workflow and tools

Where are our members/ customers today and where do they want to be in the future?



Many Members & Customers

- Books
- Paper
- Binders
- PDFs
- CDs
- DVDs

Moved To:

- Online Subscriptions
- Downloads (PDFs)
- Homemade networks
- Single User License

Increase Sophistication of Access

- 3rd Party Aggregator
- Some add'l tools (search, alerts)

ASTM Compass®

- Workflow Tools
- Annotations
- Change Management
- Version Comparison
- Linking of Internal Content to External Content
- Groups
- PDF/HTML
- Links to eLearning
- Robust Build of Training Options
- Local Language Interface
- Member Dashboard

Next Steps

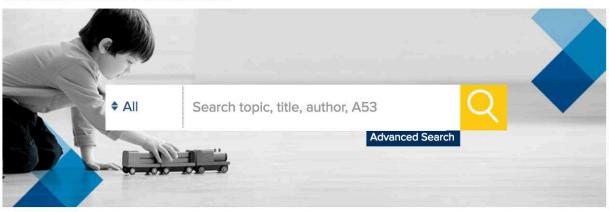
- Gap Analysis
- New Data Formats
- Standards as Data
- Subsets of Standards /Drill-Down
- Search • More
- More Mobile

Near Future

- Systems
 Engineering
 Intake Data
- Machine to Machine
- AR/VR/3D
- Parametric Equations

4514

Welcome ASTM International



STANDARDS

Book of Standards

Custom Collection

Passport to Steel C

Research Reports

Related Materials

Digital Adjuncts

Alphanumeric Listings of Standards



Translated Standards

Chinese

French

French Canadian

German

Japanese

Spanish

Russian

DIGITAL LIBRARY

Journals

Special Technical Publications

Manuals/Monographs

Data Series

Proceedings

Bulletins

Materials Research and Standards

CHETAH

BROWSE BY INDUSTRY SECTOR

Standards

Publications

OTHER CONTENT

AASHTO

AATCC

API ISO

MIL

Unified Numbering System (UNS)

UOP

E-LEARNING

SPECBUILDER

TERMINOLOGY

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9

MY TOOLS

My Annotations (11)

My Bookmarks (4)

My Saved Searches (0)

My Groups (11)

Standards Shared With Me (3)

Publications Shared With Me (0)

Product Alerts

Subscription Usage

Subscription Details

Member Dashboard

HyperLink





LINKER HOME REGISTER ▼ LANGUAGES ▼ HELP

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.

DESIGNATION: C40/C40M - 16

ASTM

HTML

Update

Compass

Summary

Standard Test Method for Organic Impurities in Fine Aggregates for Concrete

Active Standard ASTM C40/C40M



This standard is issued under the fixed designation C40/C40M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (s) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

In this standard:

Section 1 Scope

Section 2 Referenced Documents

Section 3 Terminology

Section 4 Significance and Use

Section 5 Apparatus

Section 6 Reagent and Standard Color Solution

Section 7 Sampling

Section 8 Test Sample

Section 9 Procedure

Section 10 Determination of Color Value

Section 11 Interpretation

Section 12 Precision and Bias

Section 13 Keywords

SUMMARY OF CHANGES

Footnotes



1 | Scope

Previous Next | Top Bottom

1.1 This test method covers two procedures for an approximate determination of the presence of injurious organic impurities in fine aggregates that are to be used in hydraulic cement mortar or concrete. One procedure uses a standard color solution and the other uses a glass color standard.









Share this Document
Share with Group

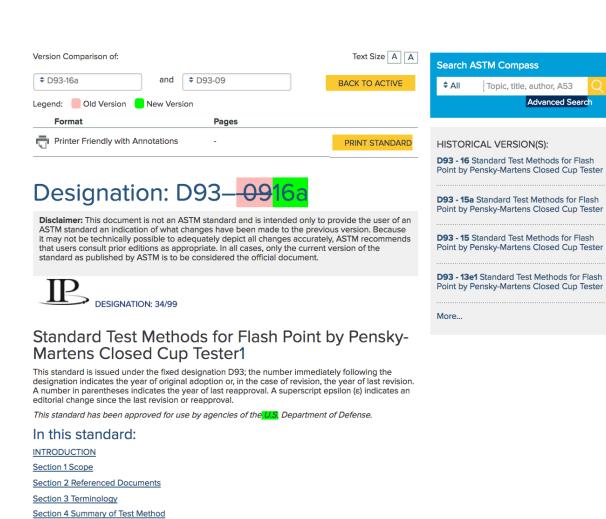
Send Feedback, Edits, Corrections to ASTM

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Details

Developed by Subcommittee: C09.20 ☐
Book of Standards Volume: 04.02 ☐
Pages: 2

ASTM Compass Version Comparison



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Section 5 Significance and Use Section 6 Apparatus

Section 7 Reagents and Materials

Section 9 Preparation of Apparatus

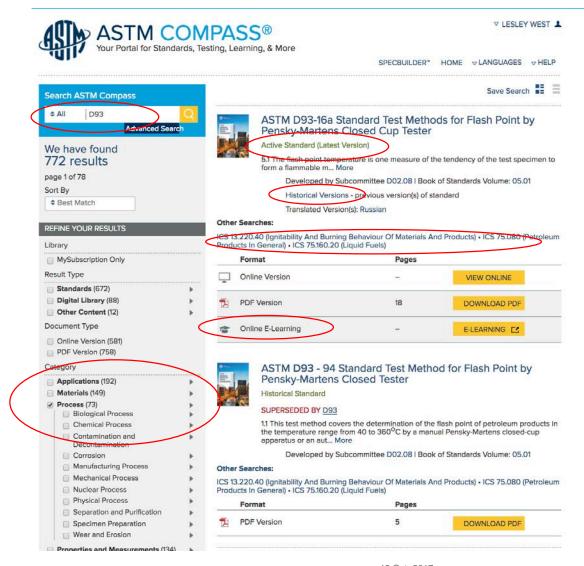
Section 11 Procedure PROCEDURE B
Section 12 Procedure PRECISION
Section CALCULATION, 13 AND Procedure PROCEDURE B

Section 10 Verification of Apparatus PROCEDURE A

Section 8 Sampling



ASTM Compass Search Results Features



Mark Up Language – Phase I



First conversion to Structured Content

- 1999: SGML Conversion Complete
 - Editors editing and composing in SGML
 - Converted 6500 standards (PDF only)

Tools:

- XyEnterprise PDM CMS
- Arbortext Epic Editor
- XyEnterprise XPP Composition and Styling

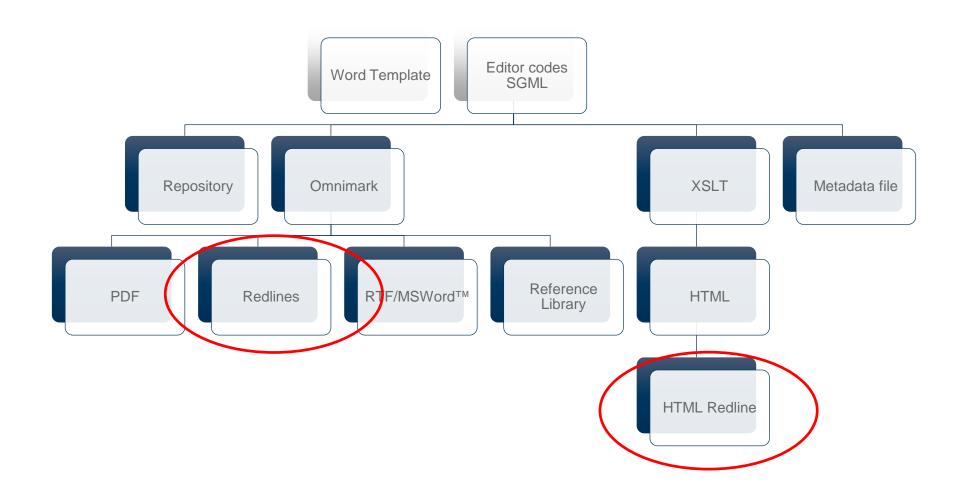
Cost: \$3 million

Savings: \$800K/annually Ballot to published PDF:

Prior to SGML—18 or more weeks after standards approval

Old Workflow, SGML





The Interim Years-Phase II



2000, Redlines

2000, Versioning (Historicals)

2002, Develop collaboration tool/online member area

2006, HTML (active and redlines)

2011, Switched to digital printing at annual savings \$.5 mil

Ballot approval to published PDF:

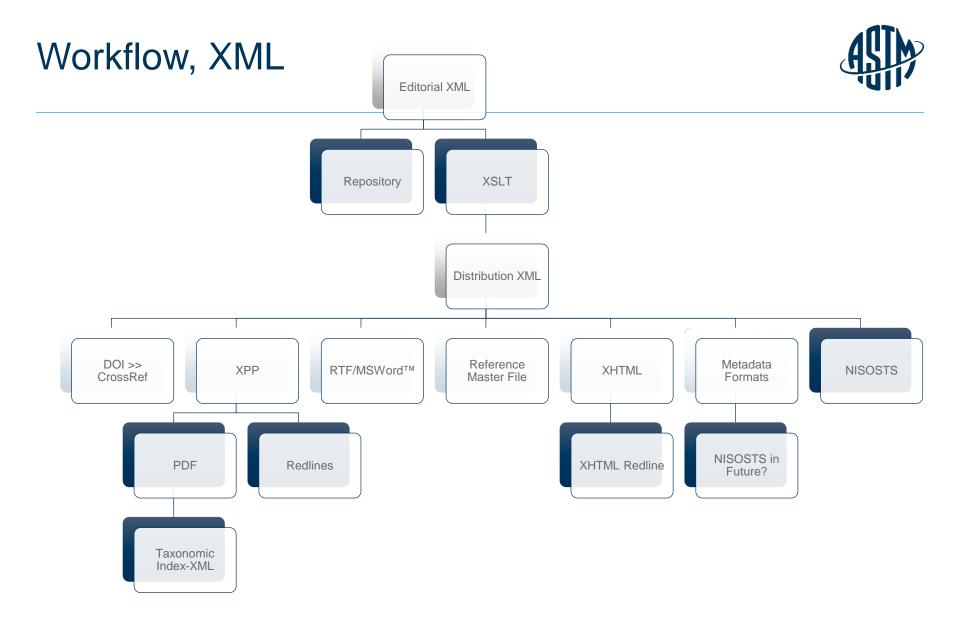
2004—2-6 weeks

XML Conversion–Features



- Based DTD on existing SGML
- Create newer, better HTML as output from XML
- Built all new customer portal for new content (ASTM Compass®)
- Created HTML tools such as annotations for customers

Cost: \$1.3 mil (\$1.7 less than SGML)



Lessons learned



These were our critical errors we had to overcome:

- Not understanding our data. Example: 25 different Notes in standards could <u>look</u> alike, but the old composition code behind each of those 25 notes could have been structured <u>25 different ways</u>.
- Choosing to convert instead of just rekeying. In retrospect, we would have been more efficient long-term with a rekey.

Where did we succeed?



- Team goals across divisions (editorial, IT).
- Having a supportive President. We were weeks from having to pull the entire SGML conversion in the '90s but for a 5-figure emergency fund approved to move forward and fix errors
- Having a supportive President. We were in real trouble within the projected cost for the XML conversion because of a misunderstanding over required QA in the '12 but for a 6-figure emergency fund approved to move forward and QA to member expectations
- Importing a leader who truly understood our data/long-term vision.

Standards Groups Events Discussing Future Formats for Standards



Recent Escalation of Conversation Opportunities

- Traditional, SPAB, SES, SPIF, DIN/Beuth
- XML Roundtables: 2013, 2014, 2015
- NIH JATS CON
- NISO XML
- SWISS
- INCOSE
- Semi-annual European
 Meetings on Product
 Development as well as Sales
 & Marketing
- Tech Forum

Table Topics, November 2017, Standards Technical Forum, NYC, NY

Machine written standards

- Future license agreements
- Business models
- Managing entitlements internal and external
- Internet of Things (IOT)
- Voice command/interaction
- AR during manufacturing, maintenance, construction, and in the lab, standards role
- Other disruptive technologies

Customer Demand Product Development



- VOC
- Total solution
- ASTM Compass®, x5 updates 2017, UX update
- ASTM collaboration management tool launch: SpecBuilder, SpecPublisher with features for industry and government
- Transclusion with semantic capabilities
- Continue support for NISOSTS activity
- Expand ASTM thesaurus
- Continue exploration of 3D modelling from our figures/tables/equations in next generation "smart manufacturing" requirements
- Still ingest Word/similar as members prefer
- Continued improvements in change management
- Output XML version of NISOSTS along with current formats

