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(American Society for Testing and Materials)

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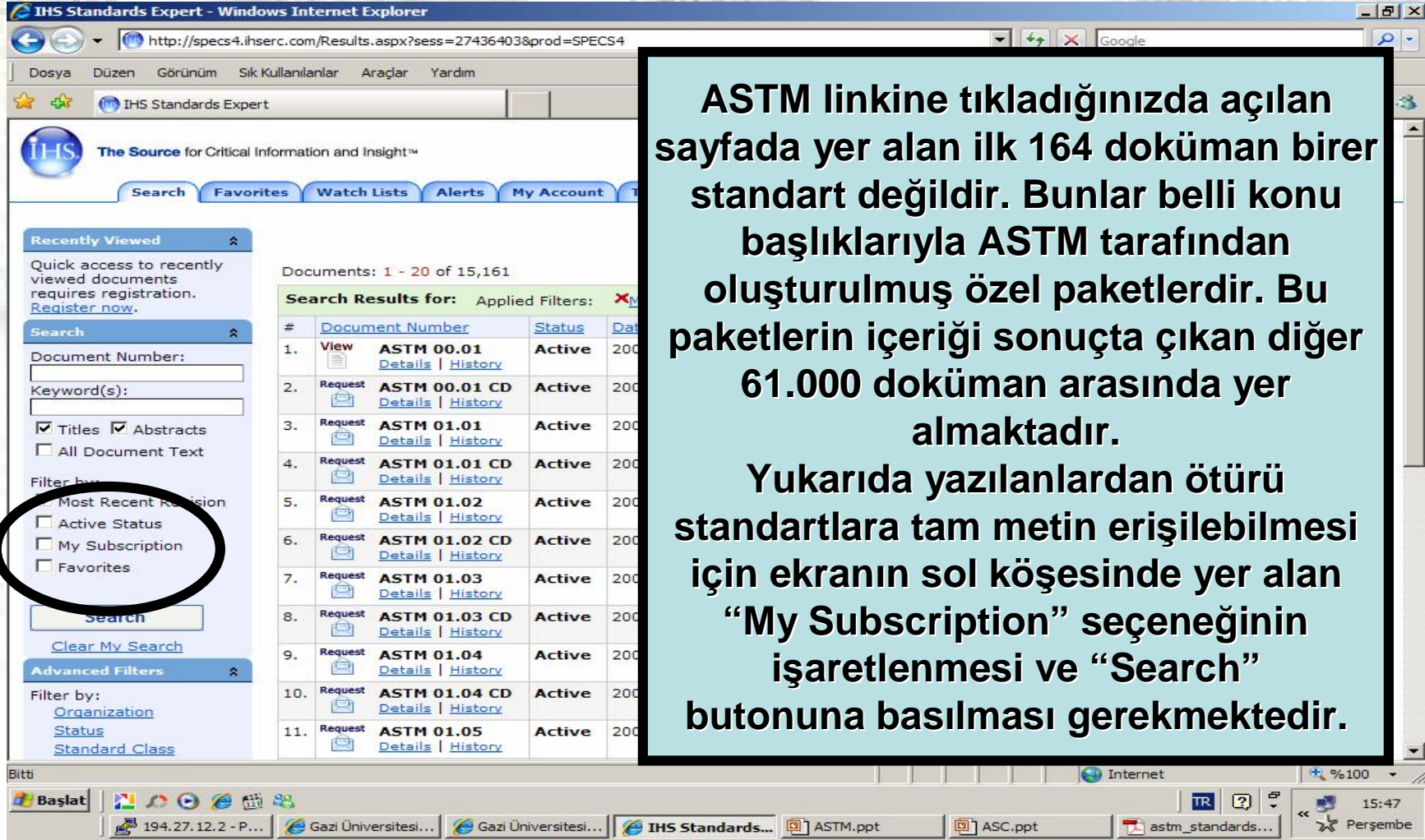
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**Sadece ASTM standartlarında tarama yapabilmek için "Organization" sekmesindeki "ASTM" linkine tıklayınız.**

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The screenshot shows the IHS Standards Expert website interface. The main content area displays search results for ASTM standards, with a table listing document numbers, status, and dates. The left sidebar contains a search filter section with a 'My Subscription' checkbox circled in black. The text box on the right explains that the first 164 documents are not standards but special packages, and that the 'My Subscription' option is used to access the full text of these documents.

ASTM linkine tıkladığınızda açılan sayfada yer alan ilk 164 doküman birer standart değildir. Bunlar belli konu başlıklarıyla ASTM tarafından oluşturulmuş özel paketlerdir. Bu paketlerin içeriği sonuçta çıkan diğer 61.000 doküman arasında yer almaktadır.

Yukarıda yazılanlardan ötürü standartlara tam metin erişilebilmesi için ekranın sol köşesinde yer alan “My Subscription” seçeneğinin işaretlenmesi ve “Search” butonuna basılması gerekmektedir.

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The screenshot shows the IHS Standards Expert website interface. The search bar is highlighted with a red circle, and a red arrow points to it from a text box. The search results table is as follows:

#	Document Number	Status	Date
1.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Active	2008.1
2.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2007.1
3.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2006.1
4.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2005.1
5.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2004.0
6.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2003.0
7.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2002.0
8.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2001.0
9.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2000.0
10.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	2000.01.01
11.	View <a href="#">ASTM 00.01</a> <a href="#">Details</a>   <a href="#">History</a>	Revised	1999.01.01

The text box contains the following text:

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21.	<a href="#">View</a> <a href="#">ASTM A 1</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	2000.09.10	Standard Specification for Carbon Steel Tee Rails	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
22.	<a href="#">View</a> <a href="#">ASTM A 1</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1992		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
23.	<a href="#">View</a> <a href="#">ASTM A 1</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1984		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
24.	<a href="#">View</a> <a href="#">ASTM A 2</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Active	2002 (R 2)		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
25.	<a href="#">View</a> <a href="#">ASTM A 2</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	2002		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
26.	<a href="#">View</a> <a href="#">ASTM A 2</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1990 (R 1)		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
27.	<a href="#">View</a> <a href="#">ASTM A 2</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1990		<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
28.	<a href="#">View</a> <a href="#">ASTM A 2</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1980.08.01	STANDARD SPECIFICATION FOR CARBON STEEL GIRDER RAILS OF PLAIN, GROOVED, AND GUARD TYPES	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
29.	<a href="#">View</a> <a href="#">ASTM A 3</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Active	2001.04.10 (R 2006)	Standard Specification for Steel Joint Bars, Low, Medium, and High Carbon (Non-Heat-Treated)	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
30.	<a href="#">View</a> <a href="#">ASTM A 3</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	2001.04.10	Standard Specification for Steel Joint Bars, Low, Medium, and High Carbon (Non-Heat-Treated)	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>
31.	<a href="#">View</a> <a href="#">ASTM A 3</a> <a href="#">Redline</a>   <a href="#">Details</a>   <a href="#">History</a>	Revised	1987.07.31	Standard Specification for Steel Joint Bars, Low, Medium, and High Carbon (Non-Heat-Treated)	<a href="#">Favorites (Add)</a> <a href="#">Watch List (Add)</a>

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**Dokümanla ilgili özet bilgiyi görüntülemek için "Document Details" tabına tıklayın. "Reference" tabı ile görüntülediğiniz dokümanda referans verilmiş standartlara ulaşabilirsiniz.**

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**Tam Metin**

**İkona tıklayarak standardı kaydedebilirsiniz.**

**Designation: A 2 - 90 (Reapproved 1997)**

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**TABLE 1 Chemical Requirements, %**

	Class A	Class B	Class C
Carbon	0.60-0.75	0.70-0.85	0.75-0.90
Manganese	0.60-0.90	0.60-0.90	0.60-0.90
Phosphorus, max	0.04	0.04	0.04
Silicon	0.10-0.40	0.10-0.40	0.10-0.40

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The screenshot shows the IHS Standards Expert website in a Windows Internet Explorer browser. The browser's address bar displays the URL: <http://specs4.ihsinc.com/DocViewDetails.aspx?sess=27436403&prod=SPECS4&docid=IDTTCAAAAAAAAAA>. The page title is "IHS Standards Expert". The main content area shows the following details for document ASTM A 2:

- Doc No:** ASTM A 2 | **Date:** 1990.08.31 (R 1997) | **Status:** Revised > Not Current Version
- Document Summary:** English -- Standard Specification for Carbon Steel Girder Rails of Plain, Grooved, and Guard Types
- Document Language(s):** English
- Organization:** ASTM
- Author(s):** ASTM - ASTM International
- DoD Adopted:** Yes
- ANSI Approved:** Yes
- Scope:**
  - Scope
    - This specification covers carbon steel girder rails of three classes based on type or type and weight, and chemistry defined as follows and in Table 1:
      - Unless otherwise specified by the [more...](#)

A callout box with a black border and light blue background is overlaid on the page, containing the text: "Document Details" Sayfası.

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References

[ASTM A 700](#) - Standard Practices for Packaging, Marking, and Loading Methods for Steel Products for Shipment

[ASTM E 10](#) - Standard Test Method for Brinell Hardness of Metallic Materials

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**“References” Sayfası**

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E. B. Henry, Jr.<sup>1</sup> and J. A. Patsey<sup>2</sup>

**Tam Metin**

A Survey of Grade Verification

**REFERENCE:** Henry, E. B., Jr., and Patsey, J. A., "A Survey of Grade Verification Methods for Steel Plants," *Journal of Testing and Evaluation*, JTEVA, Vol. 15, No. 4, July 1987, pp. 220-223.

**ABSTRACT:** A potential problem in steel processing and fabricating plants is the maintenance of the identities of each of the many varieties of steel produced daily. There are more claims entered because of wrong-grade or mixed-steel shipments than for any other reason. Usually, these claims are not the result of errors between similar grades but between grades that differ significantly in chemical composition and/or physical properties. This paper reviews the conventional practices employed in steel plants to avoid errors, describes the equipment and techniques used to verify steel grade, and outlines a typical grade-tracking system. It discusses state-of-the-art technology in grade verification and postulates a system for automatically tracking steel grade through a steel producing plant.

**KEY WORDS:** steel grade verification, nondestructive evaluation, spectrometry/spectrography, electromagnetic compassion, chemical spot checks, thermoelectric sorting, spark testing

Literally hundreds of steel grades are produced in steel plants to meet the diverse requirements of modern industry: steels that are designed for high strength and fatigue resistance, steels that are characterized by corrosion resistance, steels that maintain their properties at extreme temperatures, and steels that are ductile and have good formability. The critical nature of the characteristics for steels in the nuclear, oil-country, and automotive industries, among others, requires that each piece be properly identified. Establishing and maintaining the identity of steel grades throughout production requires a carefully planned regimen that is followed to the letter.

This paper reviews conventional steel-plant grade determination and tracking practices, surveys grade-identification and verification methods, and outlines a typical heat-tracking system. It discusses the use of state-of-the-art technology and speculates on future nondestructive instruments for automatic heat-tracking systems.

**Conventional Heat-Tracking Systems**

The primary means for establishing and maintaining grade identity in steel plants is procedural. Actually, the individual heats of steel, not grades per se, are tracked. To paraphrase an old saying, "Take care of your heats and the grades will take care of themselves."

heat sequence number. At the pouring platform (Fig. 1) each ingot is numbered with the heat number plus its own ingot sequence number. Ladle-analysis samples are taken from the start, middle, and end of the pouring stream or from the first, middle, and last ingots. These samples are taken to the laboratory and quantitatively analyzed by X-ray or emission spectroscopy. A form is filled out for each heat and follows the ingots from the pouring platform to the shrouds, soaking pits, and the primary mill. The assigned heat numbers identify the ingot, cast, plant, and furnace for semi-finished product and are carried over into the final product identification as well. The total yield for each heat is calculated on the basis of the expected number of pieces that will come from each cropped ingot, and a piece-count and grade-checking regimen is begun that will ultimately be used to reconcile predicted piece counts with actual finished-product piece counts for each heat at the shipping floor.

As shown in Fig. 2, this product-processing regimen specifies what is to be done with each ingot, semifinished unit, and finished unit to provide the required number of finished pieces with the specified grade and properties. This diagram indicates the several steps that might be taken in tracking the grade of plate, strip, or pipe, and where each check is performed. Each piece is marked with an identifying heat number, and spark testers verify grade at specific checkpoints. Also, test coupons are cut from a specified number of pieces for chemical analysis, and for yield, tension, and impact tests. In some cases, in-line electromagnetic (eddy-current) comparators, portable X-ray spectrometers, spark spectroscopy units, and portable manganese determinators that use flame spectroscopy are being used to supplement conventional methods.

In-process checks are made during production, and a final reconciliation is made at the final inspection table or shipping floor where the actual piece tally and calculated piece count are reconciled. If all the operations have been faithfully performed on schedule, without delays that might disrupt the flow of material and cause extra handling, then the tracking regimen should be effective. Otherwise, the calculated and actual figures will not correspond and an investigation of a suspected grade mix must be initiated.

**Nondestructive Methods for a Steel Grade/Heat-Tracking System**

One of the major uses for nondestructive grade sorting is in solving mixed-steel problems. Real-time nondestructive verification of

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