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Ultrasonic Testing (U?)  
Ultrasonic testing is often performed on steel and other metals and alloys, though it can also be used on concrete, wood and composites, albeit with less

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resolution. It is used in many industries including steel and aluminium construction, metallurgy, manufacturing, aerospace , automotive and other transportation sectors.



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Ultrasonic Testing in the  
Foundry Industry

Ultrasonic Testing of Steel  
Castings PREFACE Ultrasonic  
flaw detection is a method  
of nondestructive testing  
that is finding increasing  
acceptance in the United

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States. This growth in the application of ultrasonics is intimately tied...

Ultrasonic Testing Of Steel  
Castings  
Examination of Steel

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Castings." Other specifications of international importance are the Westinghouse Specification 600964, "Ultrasonic Testing of Steel Castings," and the Central Electricity Generating Board United

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Kingdom Standard 66011,  
"Turbine Castings (chromium,  
molyb- denum, vanadium  
steel) ."

Casting Inspection | Non  
Destructive Testing |  
Destructive ...

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Abstract. This test method deals with the procedures for the standard practice of performing pulse-echo ultrasonic examination of heat-treated carbon, low-alloy, and martensitic stainless steel castings by

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the longitudinal-beam technique. Calibration shall be executed by either flat-bottomed hole or back-wall reflection.

The ultrasonic inspection of austenitic materials

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ISO 10332:2010 Non-destructive testing of steel tubes – Automated ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for verification of hydraulic leak-tightness : Wrought

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products (wp) BS EN  
10160:1999 Ultrasonic  
testing of steel flat  
product of thickness equal  
or greater than 6 mm  
(reflection method)

Ultrasonic Testing FAQ |

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Olympus IMS

Class Instrumentation Ltd

Ultrasonic Sound Velocity

Table . A sound velocity  
table is a list of the speed  
of sound in various

materials. This information  
is necessary to have when

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using our Touchstone 1 ultrasonic thickness gauge, as the speed the ultrasound will move through the material in question needs to be programmed into the gauge to obtain an accurate thickness reading.

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Ultrasonic examination for ductile iron, gray iron and

...

Ultrasonic testing instrument shall be calibrated for the examination and shall be

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capable of meeting the requirements of screen height linearity and amplitude control linearity in paragraph 5.3 & 5.4 of this procedure.(Trade name of ultrasonic testing instrument is krautkramer

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USN-52) Ultrasonic testing instrument shall be equipped with ...

Ultrasonic testing -  
Wikipedia

Ultrasonic flaw detectors are widely used in critical

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safety-related and quality-related applications involving structural welds, steel beams, forgings, pipelines and tanks, aircraft engines and frames, automobile frames, railroad rails, power turbines and

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other heavy machinery, ship hulls, castings, and many other important applications.

Sound Velocity Table |  
Ultrasonic Testing, NDT  
Alloy steel castings are

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difficult to inspect using ultrasonic method. Although there is a standard produced by the ASTM E609 is very specific in what is required for inspection. I have used this standard and found that it is very good, and if the



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code is followed closely  
there is no questions.

(PDF) ULTRASONIC TESTING OF  
STEEL CASTINGS | manish  
kumar ...

Quaker City Castings can use  
magnetic particle testing,

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radiography (X-ray), ultrasonic testing, or liquid penetrant testing to evaluate the soundness of our steel casting, iron castings, and nickel alloy castings. Whatever your testing requirements may be,

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we can meet your needs.

Non-Destructive Testing of  
Castings | Quaker City  
Castings

Ultrasonic testing is used  
to detect defects like  
cracks, voids or porosity

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within the interior of the casting. The method uses reflection and transmission of high frequency sound waves.

ULTRASONIC TESTING OF STEEL  
CASTINGS J D Lavender

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Ultrasonic Inspections of Castings. Many advances in ultrasonic testing have led to the widespread application of ultrasonic scans to detect shrinkage, porosity, cracks, and other defects deep within

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castings. The simplest type of ultrasonic inspection, ultrasonic waves are initiated at the surface by a high-frequency transducer,...

Ultrasonic Inspections of

*Page 30/43*

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Castings - Stainless Foundry

Velocity-based ultrasonic testing using either thickness gages or flaw detectors can also be used to quantify graphite nodularity in cast iron.

Ultrasonic thickness gaging

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is commonly used to measure hollow castings with complex shapes, such as automobile engine blocks. Core shifts during the casting process can result in a part that is too thin on one side and too thick on the other.



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Nondestructive Testing  
Standards - ASTM  
International  
such as the majority of  
austenitic welds and  
castings, and materials  
which simply have a coarse

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grain structure but whose bulk properties are isotropic. Practically, however, it is less easy to make a clear distinction, since similar ultrasonic techniques are applied to both types of materials.

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Re: Ultrasonic Testing of Alloy Steel Casting  
Ultrasonic examination for ductile iron, gray iron and cast steel castings Our Dandong Foundry is using American Dakota VX

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Ultrasonic Velocity Gauge to inspect the inside defects and cast iron quality.

SFSA 3 - Ultrasonic Testing  
of Steel Castings |  
Engineering360  
Ultrasonic testing The

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ultrasonic testing method was applied for determination workpiece conditions, especially bonding quality. The pulse echo technique with straight beam probe and a pitch and catch technique with angle

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probes for scattering  
measurements was applied,  
both with post processing of  
C-scan and D-scan  
presentations.

Ultrasonic testing of  
composite castings

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The facts were demonstrated in the early 1960's during which the main features are the use of longitudinal and shear wave work on the application of ultrasonic methods shear wave beam spread diagrams (Figs. 46-46d) to the

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examination of steel  
castings. calibration values  
and the use of a full size  
casting drawing.

Standard Practice for  
Castings, Carbon, Low-Alloy,  
and ...



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Nondestructive Testing  
Standards. ASTM's  
nondestructive testing  
standards provide guides for  
the appropriate methods and  
techniques used to detect  
and evaluate flaws in  
materials and objects

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without destroying the specimen at hand. Such tests include radiographic, ultrasonic, electromagnetic (eddy-current), X-ray, acoustic,...

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