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White Cast Iron

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once you know about it, but it's not immediately obvious.

Heat Treatment Of A532 White

No article on heat treating ASTM A532 would be complete without taking a look at its microstructure. The high level of chromium in high chrome white iron prevents the formation of graphite in the microstructure. Instead of graphite, the

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White Iron

carbon in the metal becomes tied up in carbides. These relatively discontinuous chromium-rich, eutectic carbides exist with martensite to make up the microstructure.

Heat Treating ASTM

A532 | Chrome

White Iron |

Penticton ...

Heat Treatment Of

A532 White Heat

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Treatment Tips and
Notes for ASTM A532
Austenitization

Austenitization must be done to castings made from chrome white iron to ensure a martensitic matrix and provide the highest toughness and abrasion resistance possible.

Heat Treatment Of A532 White Cast Iron - wakati.co

We are proud to offer
Pliant²⁵ ASTM A532

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White Cast Iron
Class III Type A which is the best alloy that can be used when drilling, tapping and broaching is required. After machining it is heat treated to approximately 600 BHN. Get The Facts on Chrome White Iron Download Our Free Alloys Fact Sheet Today

**Abrasion resistant
cast irons to ASTM
A532 Standard**

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White Cast Iron

Can you please shed some light on the metallurgical precautions during casting and heat treatment of high chrome iron, ASTM-A532, Class III, type A (17, 23, 27% Cr)? We are softening for machining (300+ BHN) and hardening (600+ BHN) for better wear resistance during usage in a slurry-pumping (coal-ash) application.

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White Iron (part 2) - Industrial Heating

The chromium-molybdenum irons (class II of ASTM A532) contain 11 to 23% Cr and up to 3.5% Mo and can be supplied either as-cast with an austenitic or austenitic-martensitic matrix, or heat treated with a martensitic matrix microstructure for maximum abrasion resistance and toughness. They are usually consi

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Treatment Of A532

dered the hardest of all grades of white cast irons.

Metallurgical Aspects of HIGH-CHROMIUM WHITE IRONS

Low-alloy pearlitic white irons have hardness between 350-550 BHN, whereas high-alloy white irons have between 450-800 BHN. High-alloy white cast irons normally have austenite matrix in as-cast state, but is

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changed to hard
martensite by heat-
treatment.

Heat Treatment of White Cast Irons | Metallurgy

Heat Treatment or
Nickel-Chromium White
Irons. Nickel-chromium
white iron castings are
given a stress-relief
heat treatment
because, properly
made, they have a
martensitic matrix
structure, as-cast.

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White Cast Iron
Tempering is performed between 205 to 260°C (400 to 450°F) for at least 4 h. This tempers the martensite, relieves some of the transformation ...

Heat Treating of High-Alloy White Irons :: Total Materia

...

A-532 Grade III is about Rc42/400 BHN at pour...and can be annealed down to 300

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BHN and machined. It
White Cast Iron
can then be heat

treated to 600+ BHN.

Some pump mfgs, such
as Weir-Wemco, use
this for grit handling
vortex impeller pumps.

Machining and Heat Treating ASTM A-532

Common Heat
Treatment for the
Specific Cast-Iron
Types. High-alloy (e.g.,
high chromium, high
nickel-chromium) white

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Treatment Of A532

irons can be heat treated. For example, nickel-chromium white-iron castings are given a stress-relief heat treatment because, properly made, they have an as-cast martensitic matrix structure.

Heat Treatment of Cast Irons |

2018-12-12 |

Industrial Heating

Malleable iron is obtained by the heat

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White Cast Iron

treatment of white iron so the hard iron carbide structure of ledeburite is converted to a matrix of ferrite or pearlite and graphite is precipitated within the iron. This form of graphite is sometimes referred to as tempered carbon. A wide range of mechanical properties can be obtained in

Heat Treatment of Cast Irons - Heat

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Treat Doctor.com

Heat Treating ASTM

A532 Chrome White

Iron ASTM A532, or

high chrome white

iron, has superior

abrasion resistance. It

is particularly effective

in machinery or

equipment that

experiences grinding,

gouging abrasion or

crushing.

high chrome cast

iron heat treatment

- Ampect

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White Cast Iron

Specification for
Abrasion-Resistant
Cast Iron - ASTM A532.
Abrasion-resistant
white cast irons have
been alloyed to secure
high resistance to
abrasive wear.

Abrasion-resistant irons
can be classified into
five groups but the
majority of castings
used today are in two
groups. One is the
nickel containing
alloys, known as Ni-
Hard.

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**White Cast Iron
Abrasion Resistant
Cast Irons ASTM
A532 - Pacific Alloy**

...

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White Cast Iron -

restoranto.info Low-
alloy pearlitic white
irons have hardness
between 350-550 BHN,
whereas high-alloy
white irons have
between 450-800 BHN.

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White Cast Iron
High-alloy white cast irons normally have austenite matrix in as-cast state, but is changed to Page 13/29

Heat Treatment Of A532 White Cast Iron -

aplikasidapodik.com

High-alloyed white cast irons are an important group of materials whose production must be considered separately from that of ordinary types of cast

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White Cast Irons

irons. The metallic matrix supporting the carbide phase in the high-alloy white cast irons can be adjusted by alloy content and heat treatment to develop proper balance between resistance to

...

Heat Treating of High-Alloy White Cast Irons[1] | Heat

...

A532-87, ASTM,
Philadelphia, PA, USA,

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1983. ... XRD

Investigation on Heat
Treatment of High
Chrome White Cast
Irons. Article. Full-text
available ... Heat
treatment involves the
destabilisation of ...

**(PDF) Microstructure
and properties of
high chromium cast**

...

chromium-
molybdenum white
irons (class II of ASTM
A532) contain 11 to

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Treatment Of A532

23% Cr and up to 3% Mo and some Ni and Cu and can be supplied; either as-cast with an austenitic or austenitic-martensitic matrix, or heat treated with a martensitic matrix microstructure for maximum abrasion resistance and toughness.

Microstructural Characteristics and Mechanical Properties ...

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White Cast Iron

annealing and re-hardening ASTM A532-93 Class III Type A high chrome abrasion resistant cast iron ... We have approached the foundry to answer questions about softening and heat treating options. ... of cost and time savings using effective collaborative mechanisms at the right time have been highlighted in this

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white paper. DFMPPro,

CAMWorks ...

**annealing and re-
hardening ASTM
A532-93 Class III
Type A ...**

heat treatment of cast
iron a532 class; heat
treatment of cast iron
a532 class. PE Series
Jaw Crusher. Based on
years experience and
technology
development, A&C jaw
crusher series are of 6
different models. PF

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White Cast Iron
Series Impact Crusher.

Thousands of A&C PF

Series Impact Crushers
are installed all over
the world in recent 20
years.

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