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Remelting Of Steel

And Alloys

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Vacuum Arc Remelting Of Steel

Vacuum arc remelting (VAR) is a secondary melting process for

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production of metal ingots with elevated chemical and mechanical homogeneity for highly demanding applications. The VAR process has revolutionized the specialty traditional metallurgical techniques industry, and has made possible incredibly controlled materials used in the biomedical, aviation, and aerospace fields.

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Vacuum arc remelting - Wikipedia

In steel: Vacuum arc remelting (VAR) In this process, employed for casting steels that contain easily oxidized alloying elements, a consumable electrode made of forged steel or of compacted powder or sponge is continuously melted by an arc under vacuum. At the same time, the

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shallow molten... Read

More

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**Vacuum arc
remelting |
metallurgy |
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Pouring under vacuum lowers the hydrogen content, an important matter for large ingots. Vacuum arc remelting (VAR) In this process, employed for casting steels that contain easily oxidized alloying elements, a

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consumable electrode
made of forged steel or
of compacted powder
or sponge is

continuously melted by
an arc under vacuum.

**Steel - Special
solidification
processes |
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Vacuum arc remelted
(VAR) billets. For
applications requiring a
high-quality material
with low contents of
impurities, thus

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extremely low contents of non-metallic inclusions, steels melted in the normal way can be remelted in a high-vacuum (HV) furnace. This production method is designated VAR (vacuum arc remelting) and 'HV' is added to the steel grade designation.

Vacuum arc remelted (VAR) billets — Sandvik

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Metalwerks Vacuum Arc Remelt (VAR) furnaces have an extensive range of capabilities. The crucible sizes range from 2.5" diameter and up to 20" diameter. The furnace is setup to melt Fe, Ni, Co, Ti, and Zr alloys. This furnace is used to remelt VIM or ISM ingots into larger ingots for processing.

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Vacuum Arc Remelting (VAR) - Metalwerks

VAR In order to meet strict cleanliness specifications, ECFG has the capability to provide vacuum arc remelt (VAR) material. Vacuum arc remelting is a casting process where a consumable electrode is melted under vacuum at a carefully controlled rate using heat generated by an

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electric arc struck between the electrode and the ingot.

VAR | Vacuum Arc Remelt Matrial for Cleanliness Specifications

Vacuum Arc Remelting (VAR) is another secondary refining process that enhances the quality of metal that had undergone primary air melting and/or was melted, or remelted, in arc, VIM or

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ESR furnaces. The VAR
feedstock is
consumable electrodes
produced by VIM or
conventional air
melting.

An Introduction to Premium Melting

Vacuum Arc Remelting
(VAR) and Electroslag
Remelting (ESR) are
two secondary refining
processes applied to
conventionally
produced steel. A
comparison of VAR and

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BSR is made with basic electric arc steelmaking, via a review of current literature. These refining processes greatly improve the structure and properties of low alloy steel.

TECHNICAL REPORT D D C

“ [For vacuum arc remelting] if you melt the scrap and solidify it, to further purify it,

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you melt it again under a vacuum in a special furnace that melts it a drop at a time. It's a

very controlled environment," he explained. Electroslag remelting uses an electric current passed through an electrode made of alloy steel to a layer of slag.

**Expansions Begin
New Chapters for
Ellwood Group,
Steelite**

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Vacuum Arc Remelting
Furnaces Background -
Pioneers in VAR
Technology Consarc is
well known to
producers of speciality
steel, superalloys, and
reactive metals. We
pioneered commercial
ingot production using
automated Vacuum Arc
Remelting (VAR)
furnaces.

**Vacuum Arc
Remelting Furnaces
- Consarc**

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Vacuum arc remelting
of steel and alloys:
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**Vacuum arc
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Vacuum Arc Remelting
Another melting
process often used
with stainless steel is
vacuum arc remelting
(VAR). This is a
secondary melting
process that produces
metal ingots that have
an elevated chemical
and mechanical
homogeneity. It is
commonly found in
industries such as
medical and

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aerospace.
And Alloys

**Stainless Steel Melt
Practices | Clinton
Aluminum**

The electroslag remelting (ESR) process is used to remelt and refine steels and various super-alloys, resulting in high-quality ingots. This process can be started up through vacuum induction melting. The ESR process uses the as-

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cast alloy as a consumable electrode.

Technological
Electro-slag remelting - Wikipedia

Furnace, followed by VAR, or Vacuum Arc Remelt (also known as CEVM, or Consumable Electrode Vacuum Arc Remelting). This results in a much cleaner steel meeting the magnetic particle test requirements of AMS-2300. It is a steel

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of the highest quality with excellent transverse ductility and toughness at high strength levels. It has good shock

Datasheet 4340 ALLOY STEEL - AMS 6414 VAR - UNSG43406

The main purpose of the remelting process is to clean the steel. In short: in the ESR process all oxidic particles are absorbed

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by the slag when the metal drops pass through the remelting slag. Apart from the deposition of macroscopic inclusions, the microscopic cleanliness is also significantly improved.

Remelting Steel for the Highest Demands: ESR and VAR ...

heat for remelting is generated by a DC vacuum between the

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electrode and the forming ingot. This arc is intrinsically unstable and provides no thermal buffer.

Comparison of the Attributes of VIM + ESR and VIM + VAR

...

Vacuum Arc Remelting (VAR) is a secondary melting process used in the production of metal ingots with a precise chemical and mechanical

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homogeneity for highly
demanding
applications.

Production of Creep-Resistant Steels for Turbines: Part ...

Vacuum Arc Remelt (VAR) Since 1963, Retech has enjoyed being a worldwide leader in the production of Vacuum Arc Remelt (VAR) furnaces designed to melt reactive and refractory metals as

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well as steel.
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