

How is scandium produced?

Scandium is produced by reducing scandium fluoride with calcium: The metal has little commercial importance. The major application is expected to be as an alloying element with aluminum since it is a light metal. The combination of high strength and light weight makes Al-Sc alloys suitable for a number of applications.

Are scandium alloys used in airplanes?

The Russian military aircrafts Mig 21 and Mig 29 used aluminum scandium alloys. In Europe and the USA, scandium-containing alloys have been evaluated for use in structural parts in airplanes. Cotton S (2006) Lanthanide and actinide chemistry.

What is scandium used for?

He was sure about the discovery on the basis of the results displayed on the atomic spectrum. Later, the element was named as scandium. An alloy of scandium and aluminum is used to make durable frames of baseball bats, bicycle mountain tubings, military fighter jets, pistols and revolver guns, golf shafts, and lacrosse sticks.

How many facts are on the scandium page?

Our scandium page has over 180 facts that span 86 different quantities. Each entry has a full citation identifying its source. Areas covered include atomic structure, physical properties, atomic interaction, thermodynamics, identification, atomic size, crystal structure, history, abundances, and nomenclature.

When was scandium discovered?

It was only in 1879 when Nilson at the University of Uppsala, Sweden obtained the element from euxenite in the oxide form. He was sure about the discovery on the basis of the results displayed on the atomic spectrum. Later, the element was named as scandium.

Is scandium divalent or trivalent?

A portion of the Periodic Table showing the position of scandium and its neighbors: the typical metals (red) and the transition metals (yellow). Although scandium has two electrons in the outermost shell and is therefore expected to be divalent, it is however, like aluminum, is trivalent in all its compounds.

Scandium was one of the elements predicted by Mendeleev in 1871 when he proposed his system for organizing the elements: the periodic table. At the time he called it ekaboron ("like ...

(Scandium), ?, Sc, 21, ???, ?+3?1879· · ...

To find the vapor pressure of Scandium (Sc) at 1690K, we can use the rate of weight loss through the small hole in the container. This weight loss is due to the vaporization ...

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A method for producing a solid scandium-containing material comprises providing an aqueous solution containing carbonate ions, carbamate ions, hydrogen carbonate (HCO_3^-) ions, or ...

A container holding solid scandium in equilibrium with its vapor at 1690 K shows a weight loss of 10.5 mg in 49.5 minute through a circular hole of diameter 0.1763 cm. The length ...

Basic Scandium Facts. Name: Scandium Atomic Number: 21 Element Symbol: Sc Group: 3 Period: 4 Block: d Element Family: Transition Metal Atomic Mass: 44.955 908(5) Electron Configuration: [Ar]3d 1 4s 2 Full: 1s 2 2s ...

Scandium iodide (ScI_3) is used in lamps that produce light having a color closely matching natural sunlight. Sources Occurs mainly in the minerals thortveitile (~34% scandium) and wiikite. Also in some tin and tungsten ores. Pure ...

Notes on the properties of Scandium: Specific Heat: Value given for solid phase. Up to date, curated data provided by Mathematica "s ElementData function from Wolfram ...

Keep container tightly closed. P405 Store locked up. P501 Dispose of content / container to an approved waste disposal plant. HMIS Health Ratings (0-4) ... Proper Shipping ...

Scandium Holding Oy on perustettu vuonna 2020. Se on osakeyhtiö, jonka kotipaikka on Nurmijärvi, ja päätoimiala IT-konsultointi, IT-palvelut. Yhtiön Scandium Holding Oy ...

Related Surface Area Calculator | Area Calculator. Volume is the quantification of the three-dimensional space a substance occupies. The SI unit for volume is the cubic meter, or m^3 ...

Scandium is the transition metal with the lowest atomic number. The discovery of scandium filled a spot predicted by Mendeleev's periodic table. Scandium took the place of the placeholder element eka-boron. Most ...

SCANDIUM CAS NO 7440-20-2 MATERIAL SAFETY DATA SHEET SDS/MSDS ... H228 Flammable solid. Precautionary statement(s) P210 Keep away from heat, hot surfaces, sparks, ...

The world production of scandium is in the order of 15-20 tonnes per year, in the form of scandium oxide. The demand is about 50% higher, and both the production and demand keep increasing. A major source for ...

Contributors and Attributions; This module was designed to give general information about Scandium, a transition metal element. Having some knowledge of the properties of Scandium ...

A piece of lead is fastened on top of a large solid piece of Styrofoam that floats in a container of water. Because of the weight of the lead, the water line is flush with the top ...

A method (101) is provided for making a scandium-containing alloy. The method includes providing a molten metal (103), and mixing the molten metal with a scandium-containing ...

A strip of metallic scandium, Sc, is placed in a beaker containing concentrated nitric acid. A brown gas rapidly forms, the scandium disappears, and the resulting liquid is brown-yellow but ...

A container holding solid scandium in equilibrium with its vapor at 1690 K shows a weight loss of 10.5 mg in 49.5 minute through a circular hole of diameter 0.1763 cm. The length of the hole is ...

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