



# SAFETY DATA SHEET

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SDS Number: 7958-Y  
Date Revised: 12/20/2011

This Safety Data Sheet complies with Regulation (EC) No. 1907/2006, ISO 11014-1 and ANSI Z400.1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ESAB BARE ALUMINUM WELDING ELECTRODES AND RODS  
**Application:** Arc Welding & Gas Welding  
**Classification:** AWS A5.10  
**Supplier:** THE ESAB GROUP, INC., 801 Wilson Avenue, Hanover, PA, 17331  
**Telephone No.:** 1-717-637-8911, 1-800-933-7070  
**Emergency No.:** 1-717-637-8911 and 1-800-424-9300 (CHEMTREC)  
**Web site:** [www.esabna.com](http://www.esabna.com)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview:** Metal wires or rods in varying colors. These products are normally not considered hazardous as shipped. Gloves should be worn when handling to prevent cuts and abrasions.

Skin contact is normally no hazard but should be avoided to prevent possible allergic reactions.

Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

When these products are used in a welding process, the most important hazards are heat, radiation, electric shock and welding fumes.

**Heat:** Spatter and melting metal can cause burn injuries and start fires.

**Radiation:** Arc rays can severely damage eyes or skin.

**Electricity:** Electric shock can kill.

**Fumes:** Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Chronic overexposure to welding fumes may affect pulmonary function. Prolonged inhalation of chromium compounds above safe exposure limits can cause cancer. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular weakness, psychological disturbances and spastic gait.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

These products are continuous metal wire and solid metal rods.

Ingredients	REACH Reg. #	CAS#	EINECS#	Hazard classification <sup>(1)</sup>	IARC <sup>(2)</sup>	NTP <sup>(3)</sup>	OSHA List <sup>(4)</sup>
Aluminum	--	7429-90-5	231-072-3	F; R15 R10 stabilized F; R15-17 pyrophoric	--	--	--
Beryllium	--	7440-41-7	231-150-7	Carc. Cat. 2; R49 T+; R26 T; R25-48/23 Xi; R36/37/38 R43	1	K	--
Chromium	--	7440-47-3	231-157-5	No	--	--	--
Copper	--	7440-50-8	231-159-6	No	--	--	--
Iron	01-2119462838-24	7439-89-6	231-098-4	No	--	--	--
Magnesium	--	7439-95-4	231-104-6	No	--	--	--
Manganese	--	7439-96-5	231-105-1	No	--	--	--
Silicon	--	7440-21-3	231-130-8	No	--	--	--
Titanium	--	7440-32-6	231-142-3	No	--	--	--
Zinc	--	7440-66-6	231-175-3	F; R15-17 N; R50-53	--	--	--
Zirconium	--	7440-67-7	231-176-9	F; R15-17	--	--	--

<sup>(1)</sup> Hazard Classification according to European Council Directive 67/548/EEC, for R-phrases, see Section 16.

<sup>(2)</sup> Evaluation according to the International Agency for Research on Cancer.

1 – Carcinogenic to humans. 2A – Probably carcinogenic to humans. 2B – Possibly carcinogenic to humans.

<sup>(3)</sup> Classification according to the 11th Report on Carcinogens, published by the US National Toxicology Program.

K – Known Carcinogen S – Suspect Carcinogen

<sup>(4)</sup> Carcinogen listing according to OSHA, Occupational Safety & Health Administration (USA).

# Product Data Sheet Esab

**S Ben Porath**



## Product Data Sheet Esab:

**Materials and Strength of Gas Turbine Parts** Leonid Borisovich Getsov,2025-08-16 The present edition of the second volume of the book *Materials and Strength of Gas Turbine Parts* is devoted to the presentation of the issues of structural strength of parts of gas turbine plants for different purposes including corrosion protective coatings operating experience and bench tests and most importantly modern non traditional methods of calculations of stress strain state and strength of gas turbine unit parts under various types of loading In particular it concerns deformation fracture and crack resistance under thermocyclic loading modes of heat resistant alloy parts

**Weld Like a Pro** Jerry Uttrachi,2015-06-15 Welding is an art and skill that s essential for automotive fabrication repair and vehicle upgrades but it is also an important skill for countless household projects and industries Some books show merely basic welding techniques with steel and cast iron But this isn t your run of the mill introductory welding book In this revised edition of the previous title *Advanced Automotive Welding* Jerry Uttrachi past president of the American Welding Society does show you how to perform basic welding procedures with steel and cast iron But he also reveals advanced welding techniques and the use of aluminum titanium magnesium stainless steel and other specialty materials Projects and techniques in this book focus on automotive applications but can also be used for welding a bicycle frame welding a steel grill or repairing the frame for a garden bench TIG oxyacetylene arc and wire feed welding processes are covered but special coverage is provided for stick and MIG Welding butt and V joints is explained plus welding more complex joints including J and U joints is also shown Step by step instruction and exceptional detail give you the necessary information to tackle and complete complex welding jobs Popular automotive projects such as welding an electric fuel pump into an aluminum tank repairing chromemoly suspension arms and welding in floorpans are thoroughly covered And when it comes to repairing household items specific projects such as repairing and modifying the steel tubing on an exercise machine repairing a decorative bench and more are covered Rather than take a project to a shop you can now do the job at home Whether you re new to welding or a veteran welder looking to work with special materials or involved in a special project you will find indispensable information within the pages of this book Now you can confidently weld with steel cast iron aluminum anodized steel titanium magnesium and other specialty metals

**Sheet Metal Industries** ,2000 *Industrial Engineering* ,1988 *Advanced Materials & Processes* ,1998

**Modern Railroads** ,1983 *Welding Design & Fabrication* ,1979 *Woldman's Engineering Alloys* John P. Frick,2000-01-01 Annotation New edition of a reference that presents the values of properties typical for the most common alloy processing conditions thus providing a starting point in the search for a suitable material that will allow with proper use all the necessary design limitations to be met strength toughness corrosion resistance and electronic properties etc The data is arranged alphabetically and contains information on the manufacturer the properties of the alloy and in some cases its use The volume includes 32 tables that present such information as densities chemical elements and symbols physical constants

conversion factors specification requirements and compositions of various alloys and metals Also contains a section on manufacturer listings with contact information Edited by Frick a professional engineering consultant Annotation c Book News Inc Portland OR booknews com **Metal Construction** ,1975 **Svetsaren** ,1969 **Modern Steel Construction** ,2009 **Production Engineering** ,1986 **Spring Annual Conference Proceedings** American Institute of Industrial Engineers,1978 **Spring Annual Conference - American Institute of Industrial Engineers** American Institute of Industrial Engineers,1978 **Welding Journal** ,2009 **Metal Progress** ,1984 ASHRAE Journal ,1990 Mechanical Engineering ,1985 **Wire & Wire Products** ,1969 *Chartered Mechanical Engineer* ,1987

## Reviewing **Product Data Sheet Esab**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Product Data Sheet Esab**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web we will exploit the fact that the amount of hydrogen produced by one gram of zinc is different from the amount of hydrogen produced by one gram of aluminum 1 mol zinc 65.4 g 1 mol of hydrogen gas 1.00 g Zn 0.0153 mol H<sub>2</sub> g 3.2 mol aluminum 54.0 g 3 mol hydrogen gas 1.00 g Al 0.0556 mol H<sub>2</sub> g 4 we can react an alloy of

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web gisele chhoeuy chem 200 april 9 2022 lab partner zo lab report analysis of an aluminum zinc alloy balanced equations 4Al + 3HCl aq → 2Al<sub>2</sub>Cl<sub>3</sub> aq + 3H<sub>2</sub> g Zn + 2HCl aq → ZnCl<sub>2</sub> aq + H<sub>2</sub> g procedure see prelab in canvas for the exact procedure during the actual experiment pre lab procedure was followed exactly

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formed and calculating the quantity of metal that will yield that amount of gas

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web experimental data alloy 2 al zn alloy t 1 alloy t 2 mass metal 0 030 g 0 120 g 0 120 g 0 120 g v initial 16 00 ml 11 00 ml 8 90 ml 9 40 ml v final 55 4 ml 62 4 ml 61 2 ml 71 6 ml height 24 cm 22 8 cm 20 4 cm 13 9 cm calculated data a reaction of aluminum with hydrochloric acid p h 2 0 938 atm n h 2 0 00153 mol theoretical yield

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graph of  $n$  vs  $V$  to do this refer to equation 5 and the discussion preceding it

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construct a graph of  $n$  vs  $V$  axis vs  $V$  axis to do this refer to equation 10 note that a plot of  $n$  vs  $V$  should be a straight line

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web expert answer 100 6 ratings from data 1 eq 5  $nH_2$  at 100 0 0556 100 at 100 0 0153  $nH_2$  is no of moles of hydrogen

produced per g of sample for 0 at 0 0153 mole for 25 at 0 0254 mole for 50 at 0 0355 mo view the full answer transcribed

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gas saturated with water vapor will be obtained from a 0 1138 g sample of alloy which is 73 2 at