

Voluntary product information based on the format of the
safety data sheet
 in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH)
 as amended by Regulation (EU) 2020/878

Welding consumable: Solid wire electrode, solid rods	Print date: 03.03.2026 Revision date: 17.02.2026 Version: 2.0 / EN
---------------------------------------------------------	--------------------------------------------------------------------------

According to the REACH Regulation, it is not necessary to create a safety data sheet for articles. The information specified in Article 33 on SVHCs contained in articles does not have to be provided in a safety data sheet either. (REACH Helpdesk No. 0081)

The following information is therefore voluntary. However, to ensure good readability, it is based on the format of the safety data sheets used in chemical legislation.

SECTION 1: Identification of the substance or mixture and of the company

1.1 Product name

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Other	Other total	Al
1100	0.95 =	Si + Fe	0.05- 0.20	0.05	--	--	--	0.10	--	0.05	0.15	99.00
4043 (AlSi5)	4.5-6.0	0.8	0.30	0.05	0.05	--	--	0.10	0.20	0.05	0.15	REST
4047 (AlSi12)	11.0- 13.0	0.8	0.30	0.15	0.1	--	--	0.20	--	0.05	0.15	REST
5183 (AlMg4.5Mn)	0.40	0.40	0.10	0.50- 1.0	4.3- 5.2	0.05- 0.25	--	0.25	0.15	0.05	0.15	REST
5356 (AlMg5)	0.25	0.40	0.10	0.05- 0.20	4.5- 5.5	0.05- 0.20	--	0.1	0.06- 0.20	0.05	0.15	REST
5087 (AlMg4.5MnZr)	0.25	0.40	0.05	0.50- 1.0	4.3- 5.2	0.05- 0.25	--	0.25	0.15	0.05	Zr: 0.1-0.2	REST
5556	0.25	0.40	0.10	0.50- 1.0	4.7- 5.5	0.05- 0.20	--	0.25	0.05- 0.20	0.05	0.15	REST
5/65	0.45 =	0.40	0.10	0.50	2.6- 3.6	0.3	--	0.2	0.15	0.05	0.15	REST

UFI: Not applicable (product according to REACH Article 3)
 Nanoforms: Does not contain any intentionally manufactured nanoforms.

1.2 Relevant identified uses

Welding consumable for arc, MIG/MAG and TIG welding processes.
 Uses advised against: None when used as intended.

1.3 Details about the supplier

DRATEC GmbH
 Krefeld, Germany
 Telephone: +49 (0)2151 51625-0
 Email: Qualitätssicherung@dratec.de
 Contact person: Mr Olaf Pott

1.4 Emergency

Poison Control Centre (Germany): +49 (0)551 19240

DISCLAIMER

We have obtained the information contained in this form from sources we believe to be reliable. The accuracy of the information, whether printed or implied, is not guaranteed. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may also be beyond our knowledge. For this and other reasons, we assume no responsibility and expressly disclaim liability for any loss, damage or expense that may arise from or be related in any way to the handling, storage, use or disposal of the product. This form has been prepared for this product and may only be used with it. If the product is used as a component of another product, this information may not apply.

Voluntary product information based on the format of the
safety data sheet
 in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH)
 as amended by Regulation (EU) 2020/878

Welding consumable: Solid wire electrode, solid rods	Print date: Revision date: Version:	03.03.2026 17.02.2026 2.0 / EN
---------------------------------------------------------	-------------------------------------------	--------------------------------------

SECTION 2: Possible hazards

2.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

The product is not subject to labelling requirements and is not classified as hazardous.

2. Labelling elements

No labelling required.

2.3 Other hazards

Metal fumes may be generated during welding. Welding fumes are classified as carcinogenic (Group 1) by the IARC.

Endocrine-disrupting properties: No known endocrine disruptors according to REACH Art. 57(f).

PBT/vPvB: None of the substances contained meet the criteria.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable.

3.2 Mixtures: Aluminium alloys in solid form.

Elements	CAS No	EINECS No.	EU index	Percentage content	V.M.E.	
					Metal	Smoke
Aluminium (Al)	7429-90-5	231-072-3	013-001-00-6	The percentage content varies depending on the alloy within the standard ISO 18273, EN 573, and AWS A5.10	10 mg/m ³	5 mg/m ³
Magnesium (Mg)	7439-95-4	231-104-6	012-001-00-3			10 mg/m ³
Silicon (Si)	7440-21-3	231-130-8			10 mg/m ³	
Iron (Fe)	7439-89-6	231-096-4				5 mg/m ³
Manganese (Mn)	7439-96-5	213-105-1			5 mg/m ³	1 mg/m ³
Zinc (Zn)	7440-90-5	231-175-3	030-001-00-1		5 mg/m ³	5 mg/m ³
Magnesium oxide (MgO)	1309-48-4	215-171-9				
Aluminium oxide (Al ₂ O ₃)	1344-28-1	215-691-6				
Copper (Cu)	7440-50-8	231-159-6				1 mg/m ³
Chromium (Cr)	7440-47-3	231-157-5			0.5 mg/m ³	
Zinc oxide (ZnO)	1314-13-2	215-222-5				5 mg/m ³
Titanium (Ti)	7440-32-6	231-142-4				
Zirconium (Zr)	7440-67-7	231-176-9	040-001-00-3			5mg/m ³
Vanadium (V)	7440-62-2	231-171-1				0.05 mg/m

Concentrations according to EN ISO 18273, EN 573, AWS A5.10.

SECTION 4: First aid measures

After inhalation: Provide fresh air, consult a doctor if necessary.

After skin contact: Clean with water.

DISCLAIMER

We have obtained the information contained in this form from sources we believe to be reliable. The accuracy of the information, whether printed or implied, is not guaranteed. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may also be beyond our knowledge. For this and other reasons, we assume no responsibility and expressly disclaim liability for any loss, damage or expense that may arise from or be related in any way to the handling, storage, use or disposal of the product. This form has been prepared for this product and may only be used with it. If the product is used as a component of another product, this information may not apply.

Voluntary product information based on the format of the
safety data sheet
in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH)
as amended by Regulation (EU) 2020/878

Welding consumable: Solid wire electrode, solid rods	Print date: 03.03.2026 Revision date: 17.02.2026 Version: 2.0 / EN
---------------------------------------------------------	--------------------------------------------------------------------------

After eye contact: Rinse with water, consult a doctor.
After swallowing: Rinse mouth, consult a doctor.
Most important symptoms: Metal fume fever possible after welding.

SECTION 5: Firefighting measures

Suitable extinguishing media: Class D dry extinguishing agents, dry sand.
Unsuitable extinguishing media: Water in case of metal fire.
Special hazards: Formation of metal oxide fumes.
Protective equipment: Self-contained breathing apparatus.

SECTION 6: Accidental release measures

Collect mechanically. Avoid dust formation.
Do not allow to enter waterways or sewage systems.

SECTION 7: Handling and storage

Handling: Use personal protective equipment.
Storage: Store in a dry place.
Incompatibilities: Avoid strong acids and bases.

SECTION 8: Exposure controls/personal protection

Observe occupational exposure limits (e.g. OEL for aluminium dust 10 mg/m³).
Technical measures: Extraction at welding workstations.
Respiratory protection: ABEK/P3 filter if ventilation is inadequate.
Hand protection: Welding gloves in accordance with EN 12477.
Eye protection: Safety goggles EN 166.

SECTION 9: Physical and chemical properties

Physical state: Solid
Colour: Silvery
Odour: Odourless
Melting point: approx. 543–660 °C
Density: 2.5–2.9 g/cm³
Explosive properties: Not explosive in solid state.

DISCLAIMER

We have obtained the information contained in this form from sources we believe to be reliable. The accuracy of the information, whether printed or implied, is not guaranteed. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may also be beyond our knowledge. For this and other reasons, we assume no responsibility and expressly disclaim liability for any loss, damage or expense that may arise from or be related in any way to the handling, storage, use or disposal of the product. This form has been prepared for this product and may only be used with it. If the product is used as a component of another product, this information may not apply.

Voluntary product information based on the format of the
safety data sheet
in accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH)
as amended by Regulation (EU) 2020/878

Welding consumable: SECTION 10: Stability and reactivity Solid wire electrode, solid rods	Print date: 03.03.2026 Revision date: 17.02.2026 Version: 2.0 / EN
--------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------

~~Chemically stable under normal conditions.~~

Fine particles may be reactive.

No dangerous decomposition products known.

SECTION 11: Toxicological information

Acute toxicity: None when used as intended.

Sensitisation: None known.

Carcinogenicity: Welding fumes IARC Group 1.

Endocrine-disrupting properties: None known.

SECTION 12: Ecological information

Ecotoxicity: No data available for solid metal.

Persistence: Metal stable in solid state.

Bioaccumulation: Not relevant for solid metal.

PBT/vPvB: Not applicable.

SECTION 13: Disposal considerations

Recycling recommended.

Waste code: 12 01 03 (non-ferrous metal chips and turnings).

SECTION 14: Transport information

Not classified as dangerous goods according to ADR/RID/IMDG/ICAO/ADN.

SECTION 15: Regulatory information

REACH (EC) 1907/2006, CLP (EC) 1272/2008.

No restrictions according to Annex XVII REACH.

No authorisation required according to Annex XIV REACH.

Substance safety assessment: Not required (product).

SECTION 16: Other information

This safety data sheet has been prepared in accordance with Regulation (EU) 2020/878.

The information is based on the current state of knowledge.

Abbreviations: REACH, CLP, ADR, IMDG, IATA, IARC, etc.

DISCLAIMER

We have obtained the information contained in this form from sources we believe to be reliable. The accuracy of the information, whether printed or implied, is not guaranteed. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may also be beyond our knowledge. For this and other reasons, we assume no responsibility and expressly disclaim liability for any loss, damage or expense that may arise from or be related in any way to the handling, storage, use or disposal of the product. This form has been prepared for this product and may only be used with it. If the product is used as a component of another product, this information may not apply.