

### 1. Designation of the product or company

Product	Bi-metal band saw blades for metal cutting as rolls / coils	
Manufacturer / Supplier	AMADA AUSTRIA GMBH Wassergasse 1 2630 Ternitz	
	Telephone	+43 (0) 2630 35170 – 0
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Responsible department	Telephone	+43 (0) 2630 35170 – 0
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### 2. Composition / Information on ingredients

#### Description

Band saw blades consist of backing strip and the tooth tips. The backing strip is a heat-treated alloy steel, the tooth tip is made of high-speed steel.

Bi-metal band saw blades can optionally be coated with e.g. titanium nitride or titanium-aluminum nitride.

#### Additional information

Band saw blades are provided with corrosion protection.

#### Chemical components

Name	%	CAS Number
Iron	residual quantity	7439-89-6
Silicon	< 1	7440-21-3
Manganese	< 1	7439-96-5
Chromium	1 - 5	7440-47-3
Molybdenum	0,5 – 10	7439-98-7
Nickel	< 1	7440-02-0
Vanadium	0,1 – 1,5	7440-62-2
Cobalt *	6 – 8	7440-48-4
Tungsten *	0,1 - 2	7440-33-7

\* Tungsten and cobalt in this concentration are only found in the high-speed steel tooth tips. Generally, tooth tips are not involved in the welding process!

### 3. Identification of hazards, handling and storage

#### Possible hazards

**Welding fumes!**

#### Hazard symbols



**Signal word**

Danger

**Hazard warning**

H332 Harmful if inhaled

H317 May cause allergic skin reactions

H334 May cause allergy, asthma symptoms or breathing difficulties if inhaled

**Safety note**

P260 Do not inhale dust/fume/mist.

P280 Wear protective gloves/protective clothing/eye protection/face protection/mask.

P304 + P312 If inhaled: Consult a doctor if you feel unwell

P342 + P311 In case of respiratory symptoms, consult a doctor

**Other information**

Hazards and hazard warnings relate to welding and the welding fumes produced during the welding process!

**Handling and storage**

**Attention!** Before handling the band saw blade, always wear protective clothing consisting of safety goggles, protective gloves, and safety shoes in order to prevent injuries, especially cuts from sharp tooth edges. If dust is generated during sawing, especially during a dry cut, wear a mask in order to avoid health hazards resulting from inhaling dust.

**Caution!** If the packaging is damaged, also inspect the band saw blade (e.g., deformations, corrosions, and cracks). Such damage may cause the band saw blade to break. You should therefore not use damaged band saw blades.

**Danger!** Packed band saw blades are under tension and can spring open when the fastening loops are opened. There is a risk of injury.

**Attention!** Pull the band saw coils out of the packaging at the open corner. There is a risk of injury from sharp teeth and edges.

**Caution!** Do not remove the saw blade tooth protection until the saw blade has been installed and tensioned in the machine; otherwise, there is a risk of cutting injuries.

**Attention!** Band saw blades can break during sawing operation. It is therefore essential to read the operating instructions of the machine manufacturer before starting work.

**Caution!** The band saw coils are coated with corrosion protection. It is therefore advisable to wear gloves. In the case of skin contact with the corrosion protection, thoroughly wash the affected part of the body.

**Attention!** Keep the band saw coils dry (risk of corrosion).

**4. First aid measures****General information**

In the event of any injury due to mechanical impact (e.g., cuts on sharp tooth tips), treat the wound and/or consult a doctor if necessary.

Beware of welding fumes!

**After eye contact**

Rinse thoroughly with water. If necessary, use an eyewash.

**After inhalation**

If welding fumes are inhaled, remove the person to fresh air or ensure that there is sufficient supply of fresh air. Ensure that the person is in a comfortable position. If necessary, consult a doctor and show this safety data sheet

**After skin contact**

Wash thoroughly with soap and water.

**Notes for the doctor / treatment instructions**

Treat symptomatically

**5. Fire-fighting measures****Suitable extinguishing agents**

Use the appropriate extinguishing agent for the specific environment.

**In the event of metal fire**

Extinguishing agent for metal fire.

**Protective equipment**

Use respiratory protection.

**6. Limitation and monitoring of exposure / personal protective equipment****Additional information on the design of technical equipment**

Welding of the saw blades is only permitted with adequate fume extraction!  
Regrinding of saw blades only with equipment designed for this purpose.

**Respiratory protection**

During the welding process, appropriate respiratory protection must be worn.  
Recommended in case of dust formation during sawing (e.g., dry sawing).

**Hand protection**

Protective gloves (cut-resistant)

**Eye protection**

Safety glasses with side protection

**Body protection**

Protective clothing with long sleeves

## 7. Toxicological information

### Acute toxicity / irritating effect / sensitization

Substance	CAS Number	H-phrases	TRK - Value
Chromium	7440-47-3	H271, H301, H311, H314, H317, H330, H334, H335, H340, H350, H361f, H372, H410	inhalativ, TMW 0,02 mg/m <sup>3</sup>
Molybdenum	7439-98-7	-	-
Cobalt *	7440-48-4	H317, H350i, H372, H413	inhalativ, TMW 0,1 mg/m <sup>3</sup>
Tungsten *	7440-33-7	-	-

\* Cobalt and Tungsten are present in a concentration > 1% in the high-speed steel in the tooth tips. The tooth tips are generally not involved in the welding process.

### Additional information

Endless welded band saw blades are in solid state. No harmful effects on health when handled correctly and used as intended.

## 8. Environmental information / disposal instructions

### Environmental information

No effect known

### Disposal instructions

#### Recommendation for the product

Disposal as scrap metal, recycling is recommended.

#### Recommendation for packaging

Packaging and tooth-protection can be recycled.

### General information

Local and official regulations may need to be observed during disposal.

## 9. Transport information

No dangerous goods

## 10. Other information

All information and recommendations in this document refer to bi-metal band saw blades as rolls / coils in the delivery state. For bi-metal band saw blades delivered as endless welded, the safety data sheet for endless welded bi-metal band saw blades must be observed.