

CHAPTER 1: Identification of the substance/mixture and of the company/undertaking

Company

Company name: Metabowerke GmbH
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Product

Identification: Flap wheels/nylon web grinding wheels
Application: Coated abrasive material used for sanding and finishing operations of various materials, including metals.

Imported notice

Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During the grinding operation 90% or more of the particulates of the dust come from the material being ground and, for wet grinding, from aerosols generated by the grinding fluid. Specific attention must therefore be given to the nature of the part and of the fluid and the appropriate protection devices must be installed.

CHAPTER 2: Hazards identification

2.1. Classification

Not applicable

Abrasive wheels, not being a compound, are excluded from the list of dangerous products as defined in EC Reach Regulation.

CHAPTER 3: Composition/information on ingredients

Substances

The product contains the following ingredients:

Aluminium Oxide mineral

Nylon Fiber

Phenolic Resin

Phenolic – Paper

Epoxy Resin

CHAPTER 4: First aid measures

Applicable when abrasive wheels are in use on machines.

4.1. Description of first aid measures

Inhalation:	Remove the person to fresh air. Seek medical advice if symptoms persist.
Eye contact:	Remove from exposure and flush eyes with large amount of water.
Skin contact:	Wash affected area with soap and water. Seek medical advice if symptoms persist.
Ingestion:	No health effects are expected.
Note to physician:	Not available

CHAPTER 5: Firefighting measures

Toxic fumes may occur. Use respiratory protective equipment.

Extinguishing media: Water, foam, sand, powder or CO₂ as appropriate for surrounding materials.

CHAPTER 6: Accidental release measures

Not applicable

CHAPTER 7: Handling and storage

Follow instructions of grinding machine manufacturers and the relevant national regulations. Store in a dry and safe place. Be careful not to drop the wheels across the floor. Humidity, along with deformation from rough handling, can cause inadequacy of the product. If the wheels have been soaked or steeped, do not use them, even after a thorough drying. Store products for at least 24 hours at moderate temperatures below 40 °C (104 F)

CHAPTER 8: Exposure controls/personal protection

Respect maximum RPM as showed on sanding wheels.

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

8.1. Control parameters

Provide appropriate local exhaust ventilation for sanding, grinding or machining. Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory equipment.

Note: Hazardous dust of workpiece material may be generated during grinding and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration

Personal protective equipment

Respiratory protection:

Use respiratory protective equipment
(Type depends on specific application and material being ground)

Hand protection:

Wear protective gloves.
(Type depends on specific application and material being ground)

Eye protection:

Wear protective goggles or face shield.
(Type depends on specific application and material being ground)

Ear protection:

Use hearing protection
(Type depends on specific application and material being ground)

Skin and body protection:

Use protective clothing.
(Type depends on specific application and material being ground)

CHAPTER 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid
Colour:	Bordeaux
Odour:	Not applicable (may give off nonspecific smell in use)
Viscosity:	Not applicable
pH-waarde (at 20°C):	Not applicable

Changes in the physical state

Melting point:	Not applicable
Flash point:	Not applicable

Inflammability

Solid:	Not applicable
Gas:	Not applicable

Explosive properties

Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable

Vapor pressure:	Not applicable
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Density:	Not applicable
Water solubility:	Not defined
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Ignition temperature:	No data available
Thermal decomposition:	No data available
Bulk density:	Not applicable

9.2. Other information

None.

CHAPTER 10: Stability and reactivity

Not applicable.

Stability:	Stable. Abrasive wheels are stable when handled or stored correctly.
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Reactivity:

Conditions to avoid: None known.

Materials to avoid: None known

Hazardous decomposition products: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, misuse or reaction with another material.

CHAPTER 11: Toxicological information

11.1. Information on toxicological effects

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.
See also section 8.

CHAPTER 12: ECOLOGICAL INFORMATION

Toxicity

No effects known.

Persistence and degradability

No biodegradable potentials known.

Bio accumulative potential

No potentials known.

Mobility in soil

No potentials known.

Results of PBT and vPvB assessment

Not relevant

Other adverse effects

No effects known.

CHAPTER 13: Disposal considerations

13.1. Waste treatment methods

Product: If not used, follow national and regional regulations.
After use, abrasive wheels may be contaminated with hazardous materials (particle or cooling agents) and should be disposed of in accordance with national and regional regulations.

Packing: Follow national and regional regulations

CHAPTER 14: Transport information

Abrasive wheels are excluded from the list of dangerous products as defined in EC Reach Regulation.

DEEL 15: Regulatory information

Safety, health and environmental regulations/ legislation specific for the product:

No specific labelling requirements under respective EC directives.

National or local Regulations:

Not relevant.

DEEL 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Technical specifications

Product: AVF ST

Characteristic	Range	Specification	Test Method (UNIT)
Basis Weight	11% +/-	930	g/m ²
Thickness	10% +/-	10,5	Mm
Type of fiber	-	Nylon dtex 22 dtez	Dtex
Mineral type	-	Aluminium oxide AL ₂ O ₃	-
Grade mineral	-	320	FEPA
Cure	1% +/-	98	%
Ashes at 800 °	3% +/-	60	%
Colour	-	Bordeaux	%
Abrasiveness	-	-	Mg
Tensile strength long	-	24	Kg/51mm
Tenile strength cross	-	21	Kg/51mm

Note : According to future historical values specs will be adjusted upon agreement

Product: AVF SO

Characteristic	Range	Specification	Test Method (UNIT)
Basis Weight	12% +/-	850	g/m ²
Thickness	10% +/-	10,5	Mm
Type of fiber	-	Nylon dtex 22 dtez	Dtex
Mineral type	-	Aluminium oxide AL ₂ O ₃	-
Grade mineral	-	320	FEPA
Cure	1% +/-	98	%
Ashes at 800 °	3% +/-	60	%
Colour	-	Bordeaux	%
Abrasiveness	-	-	Mg
Tensile strength long	-	20	Kg/51mm
Tenile strength cross	-	19	Kg/51mm

Note : According to future historical values specs will be adjusted upon agreement

Product: AM

Characteristic	Range	Specification	Test Method (UNIT)
Basis Weight	5% +/-	1700	g/m ²
Thickness	1% +/-	13,5	Mm
Type of fiber	-	Nylon 100 dtex/ 20 dtex mix	Dtex
Mineral type	-	Aluminium oxide AL ₂ O ₃	-
Grade mineral	-	180	FEPA
Cure	-	98	%
Ashes at 800 °	-	58	%
Colour	-	Bordeaux	%
Abrasiveness	-	-	Mg
Tensile strength long	-	30	Kg/51mm
Tenile strength cross	-	20	Kg/51mm

Note : According to future historical values specs will be adjusted upon agreement

Product: AF

Characteristic	Range	Specification	Test Method (UNIT)
Basis Weight	14% +/-	1100	g/m ²
Thickness	10% +/-	10,5	Mm
Type of fiber	-	Nylon 100 dtex 22 dtez	Dtex
Mineral type	-	Aluminium oxide AL ₂ O ₃	-
Grade mineral	-	240	FEPA
Cure	1% +/-	98	%
Ashes at 800 °	4% +/-	61	%
Colour	-	Bordeaux	%
Abrasiveness	-	-	Mg
Tensile strength long	-	28	Kg/51mm
Tenile strength cross	-	25	Kg/51mm

Note : According to future historical values specs will be adjusted upon agreement

Product: AC

Characteristic	Range	Specification	Test Method (UNIT)
Basis Weight	10% +/-	2200	g/m ²
Thickness	8% +/-	13,5	Mm
Type of fiber	-	Nylon 100 dtex/ 20 dtex mix	Dtex
Mineral type	-	Aluminium oxide AL ₂ O ₃	-
Grade mineral	-	80	FEPA
Cure	1% +/-	98	%
Ashes at 800 °	4% +/-	63	%
Colour	-	Bordeaux	%
Abrasiveness	-	-	Mg
Tensile strength long	-	30	Kg/51mm
Tenile strength cross	-	20	Kg/51mm

Note : According to future historical values specs will be adjusted upon agreement