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## FMRU – Ventilated wheels

Product code:  
FMRU

### CHAPTER 1: Product and company Identification

#### Company

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#### Product

Identification: FMRU – Ventilated wheels  
Application: Industrial grinding accessory used for grinding operations of various materials, including metals.

### CHAPTER 2: Hazards identification

#### Product definition

Aluminum support with a vulcanized rubber coating

#### Label elements

None

## Other Hazards

The rubber centrifugal expansion wheel must be mounted only on portable or fixed grinding machines, equipped with suitable cases, able to stand up to accidental breakings.

Furthermore, the parts of the expansion wheel not used during the working, must be protected. It is absolutely necessary that every operator verifies the good conditions of the wheel, before fixing it to the machine shaft.

In case of disassembly, before a complete wear and its subsequent reutilization, it is fundamental that the operator verifies that the same wheel has not been manipulated or damaged during these phases. NEVER introduce shafts, tubes or any other foreign pieces into the lateral flaps of the wheel during the working. NEVER use a centrifugal expansion wheel without putting on the abrasive ring. NEVER use higher rotation speeds than the ones indicated on every single wheel, as the mentioned table shows:

Wheel diameter (in mm)	Max RPM
50	11000
75	7000
90	6000
100	6000
120	5000
140	4500
150	4500
175	2800
200	2800

Before using a centrifugal expansion wheel, we advise to spin it alone without the abrasive ring for a minute, ensuring that no one is on the trajectory of rotation.

Do not exceed working temperature of 70°C to avoid possible damages. Overheating at around 90°-100°C may cause a de-bonding of the rubber from the aluminum support. We advise, where it is possible, to cool the rubber with air or liquid during the use.

## CHAPTER 3: Composition/information on ingredients

### Product Composition

The Ventilated Wheel is composed of an aluminium support assembled with a vulcanized rubber coating.

**Vulcanized Rubber** : international denomination **NBR**

**Aluminum** : international denomination **UNI 5075 for casting**

: international denomination **UNI 6362 for tubes**

## CHAPTER 4: First aid measures

## Description of first aid measures

There have been no recorded accidents caused exclusively by the accidental breaking of a centrifugal expansion rubber wheel, when the operator has observed the accident prevention regulations.

## Most important symptoms and effects, both acute and delayed

None

## Indication of any immediate medical attention and special treatment needed

If an accident does occur, it is advised that the injured be taken to the nearest first aid

## CHAPTER 5: Fire-fighting measures

### Extinguishing media

Dry Powder or synthetic foam extinguisher

### Special hazards arising from the product

**Combustion Risks:** The centrifugal expansion rubber wheel will only ignite if it is in direct contact with fire. In case of possible combustion, the rubber can produce toxic gas and the area must be well ventilated upon returning back. In case of fire do not inhale smoke.

### Advice for firefighters

**Protection devices:** Respiratory protection with an independent air supply is necessary for firefighting.

## CHAPTER 6: Accidental release measures

Non-existent

## CHAPTER 7: Handling and storage

### Precautions for safe handling

None

### Safe storage

S 3 - Store in a dry and well ventilated areas.

Do not place the wheels on the floor but rather on shelves, to prevent permanent deformations to the rubber coating. It is suggested that the centrifugal expansion wheel be used within one year from the date of supply.

### Specific end uses

to be used on portable or fixed grinding machines for grinding and glazing operations with abrasive rings.

## CHAPTER 8: Exposure controls/personal protection

### Control parameters

It is essential that operator ensures the good condition of the wheel before fixing it to the machine shaft

### Exposure controls

None

### Technical controls

Integrity control must be made on the wheel before its use

### Personal protection equipment

The operator must wear adequate protections. On the contrary ear impairment may occur. Observance of main security dispositions during all working phases is highly advised, according to the dispositions of Italian Regulation n. 81/2008.

Use Dust Mask



Use Eye Protection



Use Hearing Protection



### Controls of environmental exposure

Some workings done with centrifugal expansion wheels may cause noise equal or superior to 85 Dba. Ears protections required.

## CHAPTER 9: Physical and chemical properties

### Basic physical and chemical properties

Vulcanized rubber		Aluminum	
Form	Solid	Form	Solid
Colour	Black	Odour	Odourless
Odour	Odourless	Solubility in water	Insoluble
Specific weight	1,29 g/ml		
Solubility in water	Insoluble		
Resistance to chemical agents	Resistance to hydrocarbon		

## CHAPTER 10: Stability and reactivity

Stability: Stable in normal conditions  
Reactivity: None

## CHAPTER 11: Toxicological information

Toxicity: Not determined

## CHAPTER 12: Ecological information

Non degradable product.

## CHAPTER 13: Disposal considerations

**Disposal Methods:** Do not disperse in the environment:  
It is necessary to remove the vulcanized rubber ring from the metallic support before disposing the centrifugal expansion wheel. It must not be disposed with household garbage. Observe all current national and local environmental regulations as special waste.

## CHAPTER 14: Transport information

**General Information:** non-dangerous goods  
A safe suitable packaging is always advised in order to avoid damages to the rubber coating.

## DEEL 15: Regulatory information

None

## DEEL 16: Other information

The information reported in this safety data sheet, is based on our actual knowledge .  
However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information only concerns the indicated product and it is given without any explicit or implicit guarantee about its correctness; we don't assume any responsibility for leaks, damage, direct or indirect expenses, which could result from the use of the same information.

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