

# OPERATING AND SAFETY INSTRUCTIONS

## FOR THE USE OF COATED ABRASIVES:

### FLAP DISCS, FLAP WHEELS, SANDING DISCS, ABRASIVE SHEETS, ROLLS, BELTS, ETC...

#### READ CAREFULLY AND SHARE WITH ALL OPERATORS.

For further information on: selection, features, use and safety of abrasive products, please refer to the general catalogue, our website [www.globeabrasives.com](http://www.globeabrasives.com) or contact us. Coated abrasive products can generate dangerous situations and/or create accidents. Read carefully the following instructions and the indications on the labels. Operators must be instructed on the use of abrasive products, comply with the laws and decrees of their country and the safety operating instructions of the grinders on which abrasive products are mounted. Do not allow untrained or incompetent operators to use abrasive products. Coated abrasive products are relatively fragile; handle and use them with care. The use of damaged products, the inadequate mounting and use can cause accidents, damages and serious injuries to people. Grinding and polishing applications can free hazardous contaminants in the air; use appropriate powder/fumes suction systems and wear protection devices for respiratory tract.

#### RECALLS ON PRODUCTION BATCHES.

Before using an abrasive product, check the page "recalled batch" on our website and follow the instructions, verify if the product is part of a recalled batch. Should this be the case, do not use the product, isolate all boxes from the same batch and contact our customer service.

#### EXPIRY.

Coated abrasive products have no expiry but we suggest they are used within **3 years** from the production date.

#### CHECKING, TRANSPORT, HANDLING AND STORAGE.

Verify packaging for damages and refuse shipment if it's the case. Handle with care, avoid shocks, store at temperatures between 10°C (50°F) and 30°C (88°F) and humidity around 45%. Do not expose products to frost, water or chemical products such as solvents. Always use the oldest products first. For a correct choice, contact us, refer to our catalogue or our web site.

#### CHECKING THE PRODUCT.

Before mounting, make sure that the product is not cracked or damaged. Do not use damaged products (fig.7).

#### GRINDER INSPECTION.

Check flanges, backing pads, support pivots and adapters. Make sure the grinder and the product to mount are compatible and suitable for the type of work to be done. Always use with the safety guard supplied with the grinder (fig.6). Always direct the open part of the safety guard to a direction opposite to the operator. Keep machines in an efficient state. Do not use machines that do not indicate the rotation speed on the nameplate or that do not have it.

#### EYES, FACE AND BODY PROTECTION.

Use eye and face protection such as mask, screen and glasses (fig.2), hat or head protection, heavy leather apron, safety shoes and tight fitting clothes. The noise generated by coated abrasive products can exceed 80 dBA so a prolonged exposure can cause permanent damages to hearing. Use ear protection such as earplugs and anti-noise screen (fig.3). The vibrations generated by coated abrasive products can cause damages to the human body so make sure you adopt work turnovers and resting breaks. Carry out a specific evaluation of the noise and vibration risk and adopt suitable protections and precautions. Wear protective gloves that fully cover wrists (fig.4). Carry out an evaluation of the physical and chemical risks associated with the use of abrasive products and adopt suitable precautions and protective measures. Protect the respiratory tract by wearing a mask with specific filters or air respirator systems. Use protective measures of the working environment such as ventilation, filtration and powder/fume suction systems (fig.5). Nearby personnel must be protected with all the above precautions/ measures.

#### ASSEMBLY INSTRUCTIONS.

Follow the assembly instructions supplied with the grinder and the use restrictions shown on the abrasive product label (fig.1). Make sure the maximum turning speed (RPM) of the grinder is always, (in any operating condition), lower than or equal to the speed shown on the abrasive product label. A transversal colored stripe on the label also indicates its operating peripheral speed according to the following scheme TAB.7:

Blue	up to 50 m/s	Yellow	up to 63 m/s	Red	up to 80 m/s
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For abrasive belts, make sure the peripheral speed of the driving rolls of the grinder is lower than or equal to the maximum speed allowed for the type of belt. Make sure that the dimensions and shape of the abrasive product correspond to those allowed for the grinder. Check that the abrasive product is wholly contained within the safety guard of the grinder. Do not modify the clamping flanges. Before mounting or dismounting an abrasive product, disconnect the power supply (electric energy, compressed air, etc.). Do not force during assembly. Avoid clamping with too high tightening torque. Once the abrasive product is installed, make sure that it rotates freely by turning it by hand before starting the grinder. Check the presence, correct installation and securing of the safety guard. Connect the power supply, start the grinder and make it turn for at least 30" before putting it in contact with the working piece.

During this test, do not keep the open area of the safety guard oriented towards the operator and other surrounding personnel. In case anomalies, vibrations, irregular rotation should occur, let the grinder stop naturally, disconnect power supply, remove the abrasive product and check its assembly. If the problem persists, reject the abrasive product and inform the supplier of the problem.

#### CLAMPING FLANGES.

Make sure the flanges are flat, clean and smooth. Always use suitable flanges TAB.2.

#### INSTRUCTIONS ON PRODUCTS' LABELS.

Specifications characterizing the product: dimensions; type of abrasive (A, Z, C, SG); granulometry of abrasive grit (16, ..., 100) expressed in Mesh.

Maximum allowed turning speed (RPM) and maximum allowed peripheral speed (m/s): the most common peripheral speeds are 50-63-80 m/s.

#### Reference norm: EN13743

Indications on the workable materials: steel, aluminium, cast iron, stainless steel, stone, marble, etc.

Pictograms TAB.3: from fig.1 to fig.7 explained above; (fig.8) only permitted with backup pad (for sanding discs); (fig.9) do not use on portable grinders; (fig.10) not suitable for wet grinding/polishing; (fig.11) only suitable for wet grinding/polishing.

#### USE INSTRUCTIONS AND RESTRICTIONS.

Use the coated abrasive products only and exclusively on materials, purposes and grinder types they have been designed for. Grind/polish progressively, slowly and delicately. Do not apply too much pressure and do not grind pieces subject to forces or pressures that could be released due to this operation. Remove all combustible, flammable or explosive materials from the working area. Firmly fix the work pieces before starting to work. Allow the product to cool down during use by making it spin freely for a while.

**Flap discs:** Use only with safety guard and at a 10° working angle (TAB.4A).

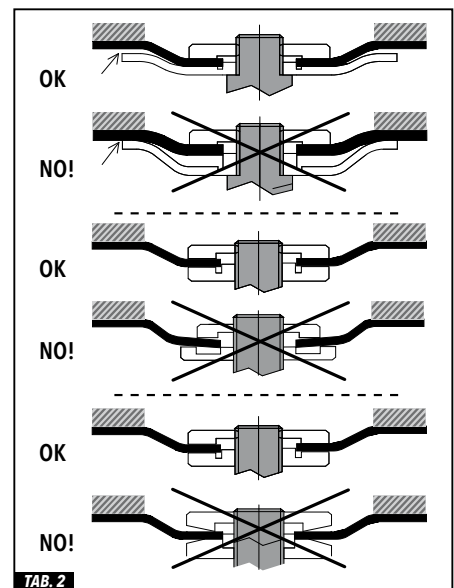
**Abrasive belts:** use only with safety guard. Do not touch the belt while moving. Store the belts hanged to drums of 50mm of minimum diameter. Do not damage the belt with sharp-edged pieces.

**Flap wheels:** check that the rotation direction corresponds to the one shown on the product.

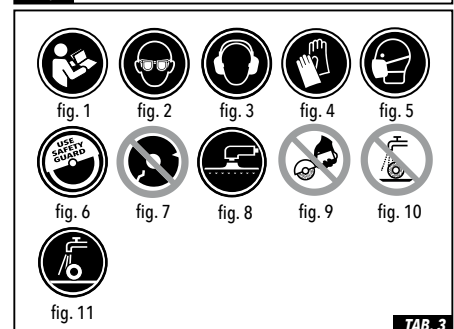
**Spindle mounted abrasive products:** fit the spindle into the mandrel minimizing the protruding part and verify the rotation direction (TAB.4B).

**Fibre discs:** use only with safety guard and suitable backing pad and clamping flange. The disc must protrude the backing pad by at least 2 mm; use at a 10° working angle. (TAB.4C).

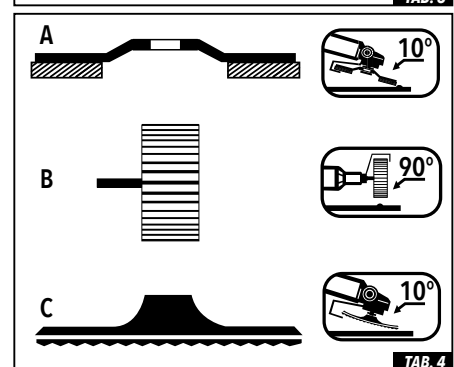
Dispose of the products according to the National laws in-force in your country.



TAB. 2



TAB. 3



TAB. 4