

## Technical Notes

### Metalgres

When the natural stone look became a popular fashion trend in the tile industry, Alpha® introduced the Porcellana blade. As glass tiles became fashionable, Alpha® delivered the Vetro blade. Now there is a new trend on the horizon, a metallic look tile that has glazed metal on the surface, so Alpha® has once again developed the ultimate blade for cutting this tile. Introducing Alpha® Metalgres blade, designed to cut metallic tile with ease. Unlike any other tile blades on the market, Alpha® Metalgres cuts metallic tile clean and fast without clogging. Once again, Alpha® leads the way in providing the best solutions for today's market.

#### Sections:

- How to Use
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Part No.	Size	Maximum RPM	Arbor
PM10A+	10"	5,900	5/8"

### How to Use

Attach the Alpha® Metalgres blade onto your tub saw or tile saw making sure that the blade's directional arrows match the spindle rotation of your saw. Adjust the depth of your cut; generally, if the blade is 1/8" below the material you are cutting, this is sufficient. Make sure your saw has an ample supply of water for cooling the blade during application. Turn on power of your tub saw/tile saw and slowly push the material into the blade, maintaining a consistent slow traverse speed until you cut through the entire piece of material. A slow consistent pushing motion will allow the diamonds within the blade's cutting edge to cut the material easily and minimize chipping on the edge.

### Frequently Asked Questions (FAQs)

#### Which way do I install the blade on my tool?

Blade directional arrows are printed on the front of the blade. Install the blade so that the rotation of the blade will follow this direction. If the front of the blade is no longer legible, a directional arrow is embossed into the back of the blade. As a last resort, examine the diamonds. The bond tail behind each diamond should be pointing the opposite direction of blade rotation. If the blade is installed incorrectly, the bond tails will reverse direction, which may cause some premature wear.

#### What materials can I cut with the Alpha® Metalgres blade?

The Alpha® Metalgres is primarily designed for use on glazed metallic porcelain tile.

#### What tools can I use the Alpha® Metalgres blade on?

The Alpha® Metalgres blade was designed for use on tub and tile saws.

#### Can I use this blade for dry application?

No. Wet cutting diamond blades must be used with water to prevent excessive heat buildup during cutting. Using water on the blade also reduces dust and helps enhance the cutting performance and life. A continuous water flow is critical. Using "wet" blades without water even for a few seconds will cause excessive heat and blade damage.

#### The speed of my cut is slowing down. What can I do to improve it?

The diamonds are rounding over or glazing causing the blade to loose its cutting ability. You need to re-dress the blade using a soft abrasive material such as a dressing stone or a concrete block.

**Can I use this blade to cut other materials such as granite, marble or engineered stone?**

No. The Alpha® Metalgres blade is specifically designed to be used on metallic glazed tile. The Alpha® Metalgres blade is engineered specifically for metallic porcelain materials and has a finer diamond mesh which facilitates excellent cutting on hard dense porcelain.

**What is the maximum RPM at which I can use the Alpha® Metalgres blade?**

The maximum RPM which you can use the blade is 5,900 RPM.

**Can I use this blade on a portable rail-saw?**

No. The Alpha® Metalgres blade is engineered for use on tub and tile saws. Using a rail saw changes the concept of the blade's cutting ability and most likely it will stop cutting after a short period of time. The concept of rail saws is to pull the blade into the material you are cutting; the tub and tile saws' concept is to push the material into the blade. The Alpha® Metalgres blade is designed for the pushing concept.

**What is the arbor size of the Alpha® Metalgres tile blade?**

See chart on Page 1.

**Helpful Hints**

- Do not force the blade to cut; allow the diamonds time to cut through the material. Slower cutting helps eliminate chipping on the cut edge.
- For thick materials (3cm or 1-1/4"), step-cutting is highly recommended.
- Wet cutting is required.
- Take appropriate steps to assure personal safety when performing any cutting application
- Review operations manual of the power tool to assure proper usage.

**Reference**

For more product information, visit us on the web at [www.alpha-tools.com](http://www.alpha-tools.com).