

# TZ-Pyramid STRUCTURED ABRASIVE PRODUCT DATA SHEET

**TZ-Pyramid**

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by: **M.Durand ASD**

France

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## PRODUCT FEATURES

Abrasive side color:	Tan / grey.
Abrasive mineral:	Aluminum oxide Al <sub>2</sub> O <sub>3</sub> .
Bonding:	Synthetic resin.
Backing:	Semi flexible fabric. Drill cotton: X weight. Color: brown.
Structure:	Microreplicated pyramids.
Mineral coating:	Slurry.
Treatment:	Grinding aid.
Maximum width:	660 mm.
Flexing:	Standard: no flex. (can be supplied in a flexed version: RFI X00900).
Grit range:	A6 . A16 . A30 . A45 . A65 . A80 . A100 . A160. (the number after "A" is the particle mean size in micrometers measured by Microtrac).

## CONVERTED FORMS

Narrow belts:	Width: from 10 to 399 mm. Straight butt splice reinforced : 75° angle. (splice with no overthickness nor underthickness under special request: RFI X15307).
Wide belts	Width: from 400 to 660 mm. Straight butt splice reinforced : 75° angle.
Segmented belts	Width: above 660 mm Straight butt splice reinforced : 75° angle.
Rolls	Contact local Sales department.
Discs	Contact local Sales department.

## STORAGE CONDITIONS

General:	Temperature: 15 to 20 °C. Relative humidity: 35% to 50% RH. Avoid humid room conditions.
Belt storage specifications:	Store in the shipping carton, or Hang on a wall support (50 mm diameter minimum) sand side out. (avoid folding the belt sand side in, as it may cause pyramids damage).

## TARGETED APPLICATIONS

Intermediate or final step of a finishing/polishing sequence.

Metals:	<u>Stainless steels, Nickel alloys, Chrome/Cobalt alloys, Carbon steel.</u> Hardened and tool steels, hard chrome. Non ferrous metals.
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Other material: contact European Technical Centers.

These products are not heavy stock removal abrasive belts.

Can provide a uniform finish as fine as Ra = 0.03 micron on hardest metals (hard chrome grit A6).

Suitable for manual operations on 2 or 3 points backstands or other belt machines operated manually (stroke sander roll).

Suitable for manual operations with portable belt tools (dynaflex, portable sander, expander wheel, swing grinder, etc...).

Suitable for semi automatic or automatic stationary belt equipment (centerless, flat finishers, lathe backstand, rotary, straight lines or robotic machines).

Application fields:	<ul style="list-style-type: none"><li>- Precision components (turbine blades, medical implants, surgical instruments, precision tools, mechanical parts, etc...).</li><li>- Decorative products (taps, handles, auto trim, tableware, cutlery, jewelry, etc...).</li><li>- Forged tools (hand tools, hammers, edge tools, wrenches, etc...).</li><li>- Engineering castings (iron and non ferrous parts for automotive, construction, domestic appliances, etc...).</li><li>- Cylindrical parts (tubes, rods, rolls, mechanical parts, etc...).</li></ul>
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## WORKING PARAMETERS

Avoid working on sharp edges or very aggressive surfaces.

Works in dry condition only.

Working surface speeds:	Hard metals: 30 to 35 meters/second.
	Titanium: 15 to 20 meters/second.

Working pressure: maximum 14 N per cm<sup>2</sup> of working surface.

## COMPETITION

Coated abrasives fine grits.

Sisal and tampico brushes with added abrasives compounds.

Bonded wheels.

Fine grits grinding wheels.

Other finishing abrasive products or methods (vibrators, tumbling, etc...).

## BENEFITS

Reduce the global finishing cost by 20% to 60% or more:	Reduce finishing sequence number of steps.
	Reduce need for lubricants.
	Longer belt life. Less down time.
	Less rework or rejects.

Better quality consistency.

More friendly to use for the Operator.

## MATERIAL SAFETY

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard.

As for all kind of grinding operations, it is strongly recommended (mandatory in some countries) to wear protective gloves, glasses, cloths and masks.

Gerd Eisenblätter GmbH  
Jeschkenstr. 10  
82538 Geretsried

Tel: +49 (0) 8171 9384-0  
Fax: +49 (0) 8171 9384-55  
E-mail: [info@eisenblaetter.de](mailto:info@eisenblaetter.de)