



BELTS FOR HIGH METAL REMOVAL & FASTER CUTTING ACTION







PERFORMS IN THE TOUGHEST ENVIRONMENTS



Viking R996 belts are a unique concept from Norton specifically designed to perform in the toughest environments. Offering high metal removal with a faster cutting action, Viking can provide an 80% increase in parts finished and 22% reduction in grinding temperature.

FEATURES

- New generation SG® ceramic grain
- New formulation of Supersize layer
- High performance resin system
- YY polyester backing for coarse grits (36-50).
- Available in grits 36, 40, 50, 60, 80
- Usable width 1500mm
- Available in narrow and wide belts and rolls

BENEFITS

- Longer belt life
- Advanced cooling system
- Fast and consistent cut rate
- High stock removal
- Maximum performance
- Cost reduction per part
- Reduced heat generation
- Process improvement
- · Less off hand pressure required to cut

MARKETS & APPLICATIONS

- Investment casting foundries (stainless steel, cobalt chromium)
- Aerospace foundries
- Medical prosthesis (casting)
- Forged parts (tools, turbine blades)
- Steel mills (plate grinding)
- General engineering (heavy stock removal operations)

INNOVATION

Viking R996 belts are made from a new generation of ceramic grain with innovative bonds specially developed to enhance grain performance offering high stock removal and longevity at high pressure.

A new generation Seeded Gel (SG®) ceramic grain, needle like and very sharp, encourages a fast cutting action with low heat generation.

The formula of the Supersize layer offers the most advanced cooling system available, aiding cutting and reducing friction, protecting the material integrity.

High performance resin system works together with the SG® ceramic grain improving cutting action and grain retention under severe work conditions.

YY polyester backing on coarse grits supports the high performance grain avoiding slipping and allowing a consistent aggressive cutting action.

A generation of technology that maximises efficiency helping achieve the best from both the workforce and automated machinery.

For grinding materials ranging from stainless steel to cobalt chromium used in a range of markets from plate grinding to turbine blades.

MAXIMUM POTENTIAL

PROBLEM.

- At full capacity and not keeping up with demand.
- Considering adding new machines and increasing manpower.
- High material scrap rate due to heat deformation and burn issues.
- Increase down time / process time due to work piece overheating.
- Looking to increase belt life.
- Looking for overall cost reduction.

VIKING SOLUTION

- Higher stock removal reduces cycle times and improves processes.
- Less friction enables free cutting and long lasting SG grains.
- Specifically designed bonds makes belt life longer.
- Excellent cost / performance ratio reduces cost per part.



SUCCESS STORIES

GATE GRINDING

MACHINE/APPLICATION INFORMATION

Application: Gate Grinding
Machine: Off-hand grinding
Contact wheel: 90 shore
Belt speed (MPs): 32 MPS

BELT INFORMATION

Belt size & grit size: Narrow belts 50 x 4000mm in P40

Monthly consumption: 300 pieces / month

COMPETITIVE INFORMATION

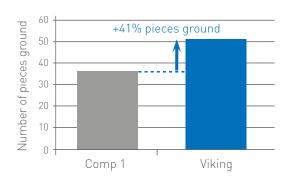
Competitor: Comp 1
Competitor's Spec: A

PART INFORMATION

Material: High nickel based alloy

RESULT W/SGA SPECIFICATIONS

- 51 pieces versus 36 for comp 1: 41% more parts finished
- Faster cut, less burns and better finish for the customer
- Total savings for the customer: 8 k€







MACHINE/APPLICATION INFORMATION

Application:Sink seam GrindingMachine:Semi automatic - POLAS

Contact wheel: 65 shore - 2:1 LR (soft for ceramic but

customer driven)

Belt speed (MPs): 29 MPS

BELT INFORMATION

Belt size & grit size: Narrow belts 50 x 5500mm in P50 to P80

Monthly consumption: 1500 belts per month

COMPETITIVE INFORMATION

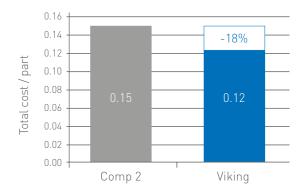
Competitor:Comp 2Competitor's Spec:B

PART INFORMATION

Material: 304 Inox

RESULT W/SGA SPECIFICATIONS

- -18% in cost per part for Viking given from increase in parts finished
- 18% reduction in cycle time using Viking
- 18% reduction in total abrasive cost using Viking





www.norton.eu

Saint-Gobain Abrasifs

Rue de l'Ambassadeur - B.P.8 F78702 Conflans Cedex

France

Tel: +33 (0) 134 90 40 00 Fax: +33 (0) 134 90 43 87

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