

The background of the advertisement is a close-up, high-contrast photograph of a large, red, cylindrical grinding wheel. The wheel is positioned diagonally, with its curved surface facing the viewer. The lighting highlights the texture of the wheel's surface, which appears to be a fine-grit material. In the upper right corner, there is a small, circular logo with the text "Reshaping your world." inside. The overall image conveys a sense of industrial precision and power.

**NORTON**

SAINT-GOBAIN

**WINTER**

**v-Prime**

## ULTIMATE EDGE STABILITY IN CNC GRINDING OF ROUND TOOLS

Norton Winter V-PRIME has been designed to provide excellent edge stability in gashing and clearance angle grinding of round tools. In today's challenging economic environment, it is more important than ever to maintain constant wheel geometry for as long as possible, without the need for correction, as this enables increased output and improved quality. V-PRIME combines the extreme edge stability of a hybrid or metal bond with the free cutting and easy to dress properties of a standard resin bond. The new V-PRIME wheels can be easily implemented without any machine or process adjustments, offering manufacturers immediate improvements.

### ROUND TOOL APPLICATIONS

END GASH | CLEARANCE OR RELIEF ANGLE GRINDING

[www.nortonabrasives.com](http://www.nortonabrasives.com)

The Saint-Gobain logo is located in the bottom right corner. It features a stylized, colorful graphic of a mountain range or a series of peaks in blue, red, and orange. Below the graphic, the text "SAINT-GOBAIN" is written in a clean, sans-serif font.

SAINT-GOBAIN

**NORTON**

SAINT-GOBAIN

**WINTER****V-PRIME  
ROUND TOOL  
GRINDING**

- V-PRIME demonstrates remarkable edge stability with reduced grinding forces and excellent performance, offering higher feed rates and lowering process times and costs
- New innovative bond system combines extreme wear resistance with the dressing ability of a standard resin bond
- More stable grinding process leads to better part quality and less sub-surface damage
- Optimized grinding wheel preparation: off-line dressing is simpler and faster, saving time and money

### Availability

SHAPE	SIZE (D X T X H)	INSERT LENGTH (U)	ABRASIVE WIDTH (W)	ANGLE (V)	SPEC	GRIT	PART #
11V9	3-3/4" x 35mm x 1-1/4"	9.3mm		70°	D64V-Prime 5406 H -1/8	240	662602 <b>13487</b>
11V9	3-3/4" x 35mm x 1-1/4"	9.3mm		70°	D54V-Prime 5406 H -1/8	320	662602 <b>12321</b>
11V9	3-3/4" x 35mm x 1-1/4"	9.3mm		70°	D46V-Prime 5406 H -1/8	400	662602 <b>13282</b>
11V9	100mm x 35mm x 1-1/4"	10mm		70°	D64V-Prime 5406 H -3mm	240	662602 <b>12804</b>
11V9	5" x 40mm x 1-1/4"	9.3mm		70°	D64V-Prime 5406 H -1/8	240	662602 <b>13286</b>
11V9	5" x 40mm x 1-1/4"	9.3mm		70°	D54V-Prime 5406 H -1/8	320	662602 <b>13284</b>
11V9	5" x 40mm x 2"	9.3mm		70°	D54V-Prime 5406 H -1/8	320	662602 <b>13287</b>
12V9	100mm x 20mm x 1-1/4"	10mm		45°	D46V-Prime 5406 H -3mm	400	662601 <b>98315</b>
12V9	125mm x 25mm x 1-1/4"	10mm		45°	D46V-Prime 5406 H -3mm	400	662601 <b>98316</b>
12V9	150mm x 25mm x 1-1/4"	10mm		45°	D64V-Prime 5406 H -3mm	240	662601 <b>98317</b>
1V1	100mm x 10mm x 1-1/4"			45°	D54V-Prime 5406 A -6mm	320	662602 <b>07878</b>
1V1	125mm x 10mm x 1-1/4"			45°	D54V-Prime 5406 A -12mm	320	662602 <b>07786</b>
11V5 (MGM)	100mm x 1-1/4" x 1-1/4"		6mm	30°	D46V-Prime 5406 A -10mm	400	662602 <b>04642</b>

Also available in 1A1, 1V1, 1B1, 11A2 shapes, as well as additional sizes, abrasive depths, and grits. cBN for high speed steel (HSS) available upon request.

### Case Study: V-Prime

**APPLICATION:** Gashing and Radius clearance grinding of tungsten carbide end mill Ø 12mm

**MACHINE:** Anca MX7 Linear

**NORTON WINTER TOOL / SPECIFICATION:** Norton Winter D64 V-PRIME 5406

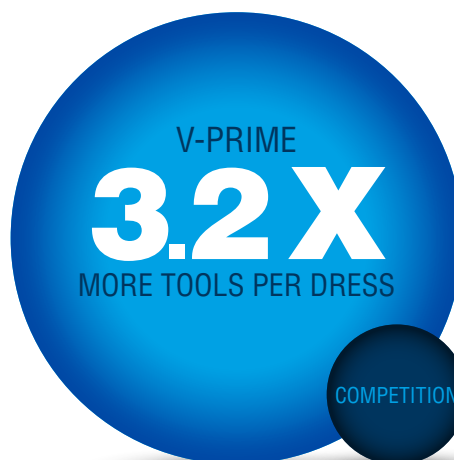
**COOLANT:** Oil

**PROCESS CONDITIONS:**

- Feed rate: +50% compared to competition
- Infeed:  $a_e$  ~0.3 mm max
- Cutting Speed:  $V_c$  = 22m/s

**BENEFIT:**

- Extremely durable
- ~20% reduction of grinding time
- Significant cost savings
- Faster machine set-up with easier wheel preparation



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**NO-RISK TEST**

