Market Update:
Off Highway Brake Pads
Fact verses Friction
AO4D Screening Test
Effectiveness Versus Deceleration @ 48 kmph
(Pre-Burnish)

VT Semi-Ceramic pads produce superior performance right out of the box.
AO4D Screening Test
Effectiveness Versus Deceleration @ 48 kmph
(Post-Burnish)

VT Semi-Ceramic pads, pre & post burnished, provide stable coefficient of friction which maximizes vehicle safety for new installations.
AO4D Screening Test
Effectiveness Verses Deceleration @ 48 kmph
(Post Fade & Recovery)

High, stable coefficient of friction improves vehicle safety plus reduces stress & fatigue on the entire brake system.
VT Semi-Ceramic provide up to 28% more stopping power than the leading competition.
VT Semi-Ceramic pads offer superior fade resistance above and below 450C.
VelveTouch brake pads recover quickly and continue to provide repeatable and predictable braking performance.
Lower Friction Wear = Longer Life & Reduced Maintenance Costs
• VT Semi-Ceramic provides up to 379% longer life.
AO4D Screening Test
Rotor Wear

Lower Rotor Wear = Longer Life & Reduced Maintenance Costs
• VT Semi-Ceramic provides up to 500% longer life.
After 800 brake engagements, VT Semi-Ceramic still outperforms the competition.
Conclusions

- **Performance highlights**
  - VT Semi-Ceramic material exhibited higher coefficient levels than the competition.
  - VT Semi-Ceramic material showed less fade than the competition.
  - Overall friction consistency for VT Semi-Ceramic material was better than the competition.

- **Wear**
  - VT Semi-Ceramic Pad wear is significantly better than the leading aftermarket materials.
  - Rotor wear with VT Semi-Ceramic material is significantly better than the leading aftermarket materials.

- **Additional Information**
  - VelveTouch Semi-Ceramic material proved effective in both dynamometer as well as OE field testing and certification.
  - VelveTouch Semi-Ceramic brake pads continue to reduce annual maintenance costs & improve vehicle safety for professional fleet managers around the globe.