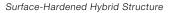
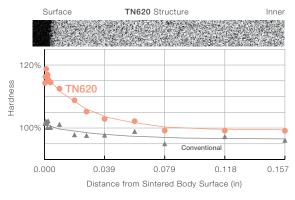




SURFACE HARDENED "HYBRID STRUCTURE"





Surface Structure

(High Hardness Cermet)

High wear resistance

Inner Structure

(High Toughness Cermet)

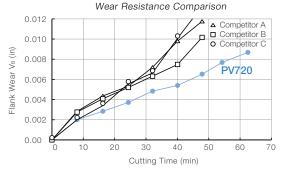
· Chipping and thermal shock resistance

(Internal Evaluation)

TN620's inner structure has high toughness and chipping resistance along with thermal shock resistance. TN620 has a higher hardness and greater wear resistance than that of the conventional micro grain cermet.

IMPROVED TOUGHNESS AND RELIABILITY

PV720 improves performance by adopting composite lamination of MEGACOAT NANO and special TiN to combine high adhesion resistance and great visibility of the used cutting edge even in dim light.



Cutting Conditions Workpiece: 4137 Steel Vc = 820sfm D.O.C. = 0.039f = 0.008ipr : Wet Insert: CNMG432PQ



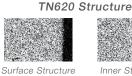




(Internal Evaluation)

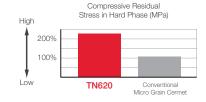
EASY TO VIEW CUTTING EDGE WEAR

Improved strength with uniform micro grain hard phase and superior compressive stress with high melting point bonded phase. This combination yields greater fracture resistance.

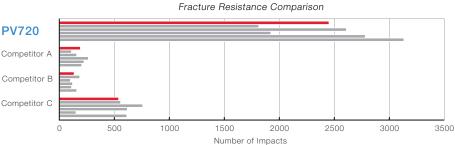


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Inner Structure



(Internal Evaluation)



Cutting Conditions Workpiece: 1045 Structural Steel Vc = 820sfm D.O.C. = 0.039" f = 0.008ipr : Wet Insert: CNMG432PQ (Internal Evaluation)

KYOCERa

TOOLING

CBN & PCD

TOOLHOLDERS

SMALL TOOLS

D

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G

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