

NU-LOK™
INDEPENDENT FLOATING SHIM TECHNOLOGY



NUCAP

NU-LOK

NUCAP's independent floating shim technology, giving our shims a more superior noise reduction property; ease of attachment results in faster, more cost efficient production.

NU-LOK, NUCAP'S BREAKTHROUGH REDESIGN OF THE JAPANESE OE "FLOATING SHIM" TECHNOLOGY

The NU-LOK shim combines the integrity of mechanical lock with the superior noise dampening capabilities and resistance to shear-based damage of Japanese-style OE shims.

DESIGN EXCELLENCE & ENGINEERING INTEGRITY FROM NUCAP

All NUCAP designed shims reflect the quality and detail required for engineered solutions — including shim profiles that maximize plate coverage, and designing in tolerances at critical abutments for NU-LOK's floating action during load.

NU-LOK ON THE BRAKE PAD



NU-LOK IS NOT A "TABBED" SHIM

The locking "Fingers" provide a secure attachment to the plate, via their NU-LOK design. Each shim is designed to maximize attachment and spring action required to optimize its anti-noise performance. The NU-LOK design requires tensioning to spread fingers open during application. Each of the NU-LOK fingers remains under tension in the "locked" position.

NU-LOK PERFORMANCE DURING BRAKING

- + Angle of shim when it's in neutral position
- + Deflection angle of plate under load



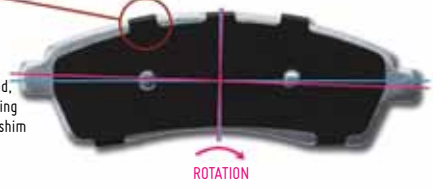
NU-LOK "fingers" under tension in locked position

NEUTRAL POSITION



"Finger" torques under load, allowing plate to move during braking without stressing shim material or attachment

UNDER LOAD



ROTATION



Torque load on finger shifts shim back to neutral position

POST - LOAD



NU-LOK ON THE ROAD

There is typically a very high shear stress on the shim during braking. Even with the caliper piston applying up to 1,000 f/lb's of force, the pad shifts under load. This movement of the pad breaks down the integrity of the shim attachment (which can result in shim delamination and damage), or breaks down the integrity of the shim material (which can cause noise). The NU-LOK design allows the shim to remain stable, in relation to the caliper as the pad shifts during braking. The spring tension in the NU-LOK fingers returns the shim to its neutral position on the pad after the brakes are released and the pad returns to center.

For more information on NUCAP's complete line of plate products, please call 416.494.1444

NUCAP®

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