HEPU®

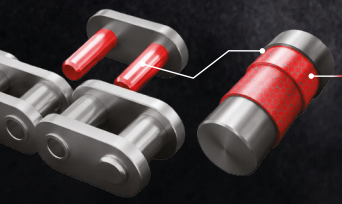
MADE IN GERMANY
SINCE 1958

THE NEW BENCHMARK IN TIMING CHAIN DURABILITY



QUALITY THAT LASTS
6 YEARS
OR 120 000 KM
WARRANTY
VANATEC CHAINS

VANATEC
VANADIUM DIFFUSION PIN TECHNOLOGY

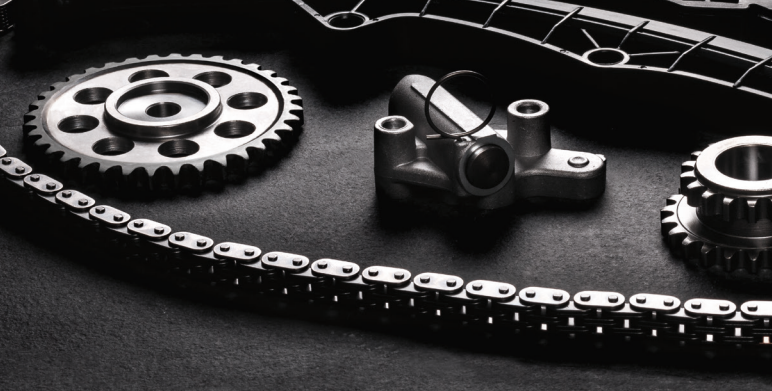


23
V
Vanadium
50.9415

HIGHER WEAR RESISTANCE
– the chain maintains its correct geometry for longer

LOWER FRICTION
– reduced operating resistance and heat generation

GREATER DURABILITY UNDER HIGH LOADS
– essential for modern, highly turbocharged engines



NEW TECHNOLOGY FROM HEPU.
DOUBLE RESISTANCE OF THE CHAIN.

Timing chain failure starts at the smallest part – the pin. VANATEC™ hardens exactly the surface that wears first.

800 HOURS ENDURANCE TESTING:

- **0,136%** – VANATEC™
- **0,269%** – standard carbonitriding
- **~2× the wear resistance.** Measured, not claimed.

HOW IT WORKS

A vanadium-carbide layer (0.009–0.012 mm) diffused into the pin in a molten-salt bath – a hardened layer bonded into the material itself, not a coating that can flake.

The benefit: the chain holds its geometry longer > valve timing stays in sync > fewer claims.

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VANATEC®
VANADIUM DIFFUSION PIN TECHNOLOGY

on kits featuring the VANATEC™ technology chain.