



GATES SYNCHRONOUS GD450

Already established as a supplier of life of engine synchronous products, through continued innovation, Gates has now developed and launched the GD450 belt, which represents even longer lifetime and enhanced package reduction options. This belt represents yet another key milestone in synchronous technology. Revolutionary hybridization of materials, originally designed for the aerospace industry and close attention to overall composite performance have created significant improvements in life, in the most extreme environmental conditions.



PRODUCT ACHIEVEMENTS

Performance

- › The Gates GD450 belts demonstrate life of engine capability
- › Significant width reductions are possible in most applications, both gasoline and diesel
- › Ability to perform in the harshest of environments and temperatures (up to 170°C)
- › Noise and fuel economy advantages over chain

System economics

- › Overall system costs reduced by condensed drive design

MATERIAL EVOLUTION

Fabric

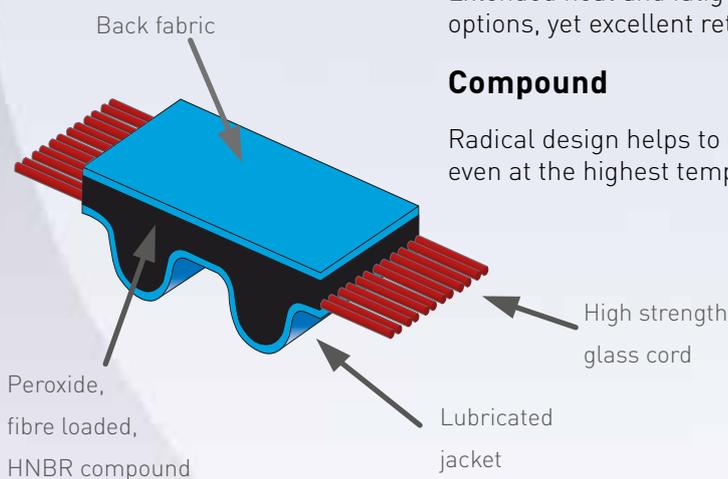
The superior hybrid construction, combining the stability of aerospace materials with advanced treatment systems, results in higher temperature/chemical resistance and improved mechanical performance. Designed with back fabric to combat the effects of misalignment.

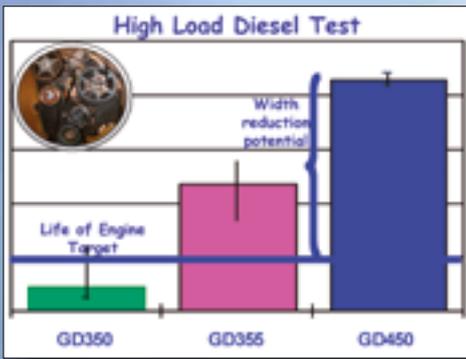
Cord

Extended heat and fatigue resistance of this composite allows flexible design options, yet excellent retention of timing accuracy throughout engine life.

Compound

Radical design helps to maintain critical belt performance characteristics, even at the highest temperatures.



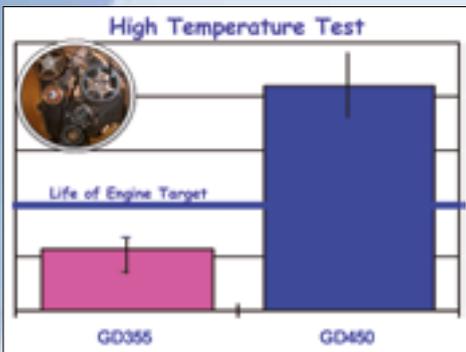


GD450 PERFORMANCE CHARACTERISTICS

Durability and width reduction

Even in high load applications, GD450 represents an 8x lifetime improvement over existing commercially available products.

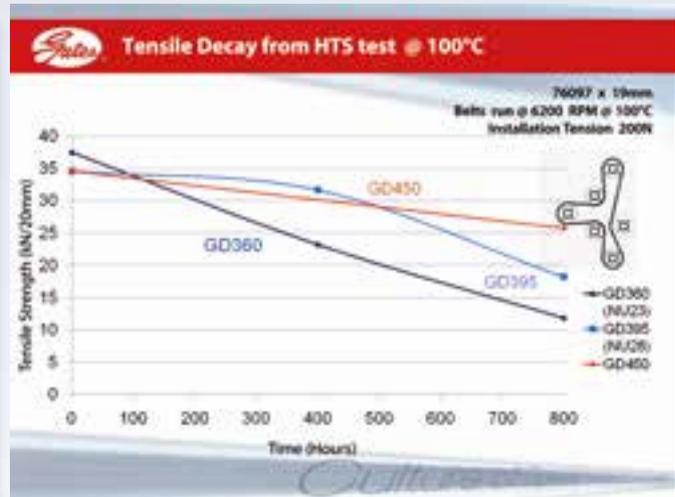
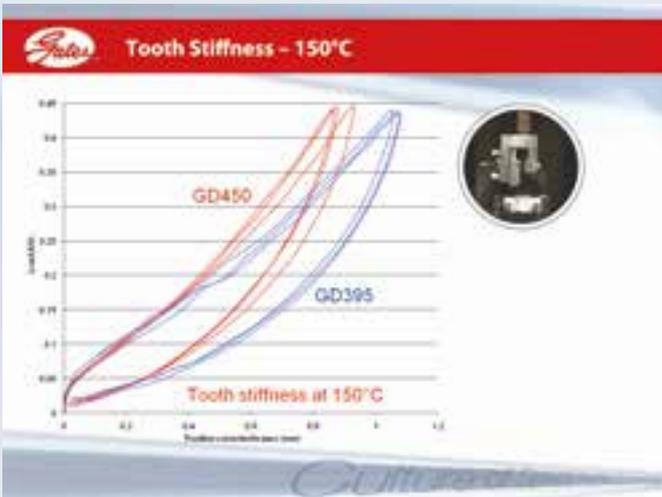
In the majority of applications, this creates the potential for significant width reduction.



Environmental resistance

Careful consideration of overall belt performance, at extreme temperature, has created a belt composite which will operate efficiently in the most aggressive of under-bonnet environments.

Dimensional stability



A stiffer response, coupled with excellent "life of engine" dimensional and performance stability, ensure that the demonstrated fuel economy advantages and noise benefits of belt over chain are maintained.

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