

DRIVELINE

Axcel[®] S

Automotive Gear Oil Additive Package



Standard Tier, for Axles and Transmissions, with ZF and MAN Approvals

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Getting into Gear[™]

Key Performance Benefits

Axcel[®] S additive is an automotive only gear oil additive that offers strong performance at a highly competitive treat-rate. Axcel[®] S additive provides:

- Low treat-rate for GL-5, ZF and MAN performance
- MAN and ZF approval - MAN 342 M2 (160,000km), ZF TE-ML 12E (bus axles)
- Demonstrates excellent cleanliness due to its strong oxidative performance
- Unique 'booster' approach for MB, Scania, MTF and MIL-E approvals; Industrial and Top Tier performance

Axcel[®] A Family of Solutions

The Axcel[®] Family of core and additive boosters offers:

- Top treats to a range of applications at competitive treat-rates
- Reduced inventory control
- Improved plant utilisation
- Flexibility to meet peak demand
- Security and confidence from a product in a family of gear additives with an extensive history of trouble-free performance worldwide

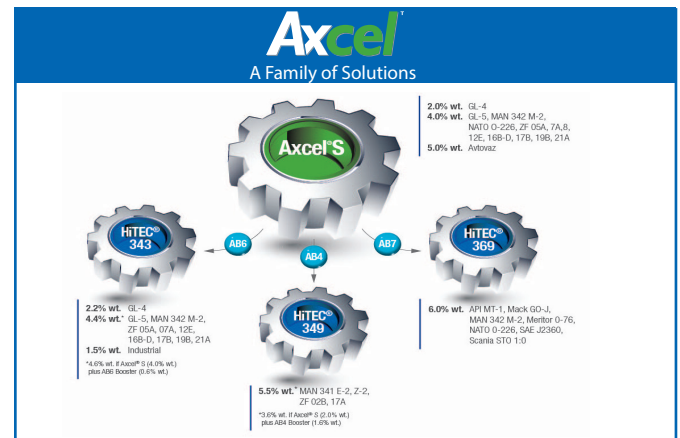
Axcel[®] S provides superior protection against pitting and wear in ZF axle load test



Competitor



Axcel[®] S



Recommended Dosage

Automotive	
4.0% wt.	API GL-5 (eqv. MIL-L-2105D), MAN 342 M2 (160,000 km drain), ZF TE-ML 05A, 7A, 08, 12E, 16B, C & D, 17B, 19B, 21A, NATO O-226, Volvo STD 1273,1
2.0% wt.	API GL-4

Treat-rates may vary depending on base stock.

Typical Characteristics

Appearance:	Clear Yellow Liquid
Density at 15°C, g/ml:	1.098
Flash Point (PMCC), °C:	92
Kinematic viscosity at 100°C, mm ² /s:	8.4 cSt

Handling Information

Max Handling Temp: 65°C
Shelf Life: 24 months at 25°C
6 months at 40°C

Approvals

Product	API GL-5	Industrial	MAN 342 M1	MAN 342 M2	NATO O-226	SAE J2360	Scania STD 1.0	ZF TE-ML 05A	ZF TE-ML 07A	ZF TE-ML 08	ZF TE-ML 12E	ZF TE-ML 16B-D	ZF TE-ML 17B	ZF TE-ML 19B	ZF TE-ML 21A	Volvo STD 1273,1	API GL-4	API MT-1	MAN 341 E2	MAN 341 T2	ZF TE-ML 02B	ZF TE-ML 17A
Axcel [®] S	2	2*	1	1	1*	1*	1	1	2	2	1	1	1	1	1	1	2	2*	1	1	1	1*

Product Status

- Approved
- Meets Requirement
- Suitable for Use

Specification Status

- 1 Formal Approval
- 2 Self Certifying
- 3 Obsolete

Notes

- * Finished Fluid
- + Top treat required

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