

An oil for gearboxes and axles.

**PERFORMANCES**

**Standards:**

API GL-4

**Specifications:**

**MB-Approval 235.1\* (SAE 80W85W)**  
ZF TE ML 02B 17A (SAE 80W85W)

\* **Approved quality.** Use recommended under manufacturers' warranties

**ORGANISATIONS & MANUFACTURERS - Scope of application -**

**API GL-4:** Meets the manual gearbox specification, MIL-L-2105 (obsolete). A level of additives equivalent to 50% of that for class GL-5 is generally adequate.

**ADVANTAGES**

TRANS EPA's additive system has been specifically designed for greasing gearboxes, but it can also be used in hypoid axles.

The forces encountered in gearboxes are manifested on the gears by high pressures and shearing effects; they are considerably mitigated by the extreme pressure, anti-corrosion and anti-wear additives contained in TRANS EPA, which also give it exceptional load resistance properties.

Grade 80W85W include grade 80W.

*NB: For gearboxes: be sure to comply with the manufacturer's recommendations; indeed, in certain gearboxes, using API GL-5 products instead of API GL-4 products may cause abnormal wear on bronze or copper parts (e.g. synchromeshes).*

**USES**

It can also be used in certain hypoid gear and spheroidal gear axles working at high speed and low torque or at low speed and high torque, for which manufacturers recommend an API GL-4 oil.

Characteristics	Standards	Units	80W85W	80W-90	90
Density at 15°C	NFT 60-101	kg/m <sup>3</sup>	891	894	898
Viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	101	141	173
Viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	11.8	16.4	16.5
Viscosity index	NF T 60-136	-	106	123	100
Pour point	ASTM D97	°C	-30	-30	-21
COC flash point	NF T 60-118	°C	>200	>200	>200

*The characteristics are given purely for information and are consistent with our current production standards. IGOL reserves the right to modify them, in order to pass on technical developments to its customers. Before using this product, you should consult the instructions for use and the environmental impact shown on the technical and safety data sheets. The information given above is based on the current state of our knowledge of the product in question. The product user should take all relevant precautions relating to its use. Under no circumstances may IGOL be held liable for damages resulting from misuse.*

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