

FLENDER GEAR UNITS

Approval of Gear Oil

No. A-IR-20111026

Date of expire: 29-11-2012

For the gear oil

Matra X I-Gear Sintesis FDR

with a viscosity range of

ISO VG 150 - 320

for sale by the company

Industrial Quimica Riojana, S.A.

the compliance with the CLP quality in accordance with DIN 51517-3 is guaranteed by the selling company.

The selling company has had performed the following tests according to the

**Specification of oil approvals for FLENDER gear units , Rev. 9
for Helical-, Bevel- and Planetary gear units**

with the mentioned oil. The test results were presented to Siemens.

- FZG scuffing test (A/8.3/90) in accordance with DIN ISO 14635-1
- FE-8-rolling bearing test (D-7,5/80-80) in acc. with DIN 51819-3
- Compatibility with gear unit internal coatings P22-8050 and Nuvopur Aqua Primer 510.1.6.1400
- Compatibility with Loctite 128068 liquid sealing compound
- Compatibility with elastomer seal material 75 FKM 170055, 72 NBR 902 & 75 FKM 585 - static test
- Compatibility with elastomer shaft seals 72 NBR 902 and 75 FKM 585 - dynamic test
- Flender oil foaming test according GG-V 425
- Micropitting test FVA 54 I-IV

- Double speed FZG scuffing test A/16.6/90 similar like DIN ISO 14635-2

According to the presented test results, the conditions demanded by Siemens were satisfied.

We therefore recommend the using of the above mentioned oil for our following gear units

Helical-, Bevel- and Planetary gear units

Bocholt, 26-10-2011



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