

DIN ISO 14635-1

DIN

ICS 21.200

Supersedes
DIN 51354-1:1990-04 and
DIN 51354-2:1990-04

**Gears –
FZG test procedures –
Part 1: FZG test method A/8,3/90 for relative scuffing load-carrying
capacity of oils (ISO 14635-1:2000)
English version of DIN ISO 14635-1:2006-05**

Zahnräder –
FZG-Prüfverfahren –
Teil 1: FZG-Prüfverfahren A/8,3/90 zur Bestimmung der relativen Fresstragfähigkeit von
Schmierölen (ISO 14635-1:2000)
Englische Fassung DIN ISO 14635-1:2006-05

Document comprises 26 pages



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Translator's note. This English translation of DIN ISO 14635-1 incorporates the corrections and additions made in DIN ISO 14635-1 Corrigendum 1: 2007-03.

National foreword

The section *Antriebstechnik* of the *Normenausschuss Maschinenbau* (Mechanical Engineering Standards Committee) and the *Fachausschuss Mineralöl- und Brennstoffnormung* (FAM) of the *Normenausschuss Materialprüfung* (Materials Testing Standards Committee) of DIN have decided to include the following national annexes to ensure continuity in German FZG testing methodologies and to preserve the FZG testing knowledge base in Germany: National Annex NB contains a detailed description of the test rig taken from DIN 51354-1:1990, and National Annex NC contains the complete Annex A to DIN 51354-2:1990 on an "additional investigation to characterize wear development".

Upon publication of the present standard, DIN 51354-1 and DIN 51354-2 will be withdrawn.

The material composition given in Table 2 of the ISO Standard corresponds to material 20 MnCr 5 as in EN 10084.

Unless they have been published as the corresponding DIN EN ISO or DIN ISO Standards with the same number, the DIN Standards corresponding to the International Standards referred to in clause 2 are as follows:

ISO 1328-1 DIN 3961:1978, DIN 3962-1:1978, DIN 3962-2:1978 and DIN 3963:1978

ISO 4964 no national standards available

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. DIN shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14635-1 was prepared by Technical Committee ISO/TC 60 "Gears", Subcommittee SC 2 "Gear capacity calculation".

ISO 14635 consists of the following parts, under the general title *Gears — FZG¹⁾ test procedures*:

- *Part 1: FZG test method A/8,3/90 for relative scuffing load-carrying capacity of oils*
- *Part 2: FZG step load test A10/16,6R/120 for relative scuffing load-carrying capacity of high EP oils*
- *Part 3: FZG test method A/2,8/50 for relative scuffing load-carrying capacity and wear characteristics of semifluid gear greases*

Annexes A and B of this part of ISO 14635 are for information only.

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