

ICS 21.200
CCS J 17



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19406-2003

**Calculation methods of load capacity for involute cylindrical
spur and helical gears -- Application for industrial gears
(English Translation)**

Issued on: November 25, 2003

Implemented on: June 1, 2004

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People Republic of China**

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What this standard covers

This standard specifies: strength and flexural strength check calculation method of industrial contacts with straight and helical gears, this standard the formula does not apply to other forms tooth damage, such as plastic deformation, micro- pitting, gluing, surface crushing, welding and wear, can not be applied to unexpected tooth profile destroy under vibration conditions. Flexural strength formula can be applied to the tooth root root fillet break, rather than using tooth profile on the tooth surface work broken gear ring failure or gear blank spokes and wheels failure. This standard does not apply to forging or became final processing methods tooth, then angle can not be applied to spot poor gear. This standard specifies a different gear design comparison method, their purpose to ensure that the assembly does not drive gear system performance, nor for general engineering use, but for experienced designer gear used, him based on a similar design knowledge and discussed on the impact of these chapters understanding, energy for these formulas coefficient reasonable choice value.

Document data

International classification (ICS): 21.200.

Chinese classification (CCS): J17.

Estimated length of the Chinese original: 43,434 words.

Adopted international standard: ISO 9085-2002; IDT.