



## ERRATA

### ANSI/AGMA 1003-H07

### April 2025

The following editorial corrections will be added to the next edition of ANSI/AGMA 1003-H07, *Tooth Proportions for Fine-Pitch Spur and Helical Gearing* (published in 2007).

The changes, discovered after publication, have been reviewed and approved by the AGMA Accuracy and Nomenclature Committee.

**Error:** In the Clause 5.9, Equation 3 “where” list, Pd diametral pitch, transverse, mm should not be in metric units but U.S. customary units.

**Correction:** See the correction, highlighted below. Please use the below correction in place of the existing Equations 3–6 “where” list in ANSI/AGMA 1003-H07.

#### 5.9 Formula for enlargement of spur pinions

$$\Delta e = \frac{1.05 - 0.5N_p \sin \phi (\sin \phi - \cos \phi \tan 5^\circ)}{P_d} \quad (3)$$

$$t = \frac{\pi}{2} + \Delta t \quad (4)$$

$$\Delta t = 2\Delta e (\tan \phi) \quad (5)$$

$$\Delta a = \Delta e \quad (6)$$

where

- $\Delta e$  is enlargement =  $\Delta C$ ;
- $N_p$  is number of pinion teeth;
- $\phi$  is transverse profile angle, degrees;
- $P_d$  is diametral pitch, transverse, **mm, in<sup>-1</sup>**
- $t$  is transverse tooth thickness, in;
- $\Delta t$  is tooth thickness modification;
- $\Delta a$  is addendum modification;
- $\Delta C$  is center distance enlargement with rack.