

Equations for Chordal Thickness of Gleason Spiral Bevel Gears

No.	Item	Symbol	Formula	Example
1	Circular Tooth Thickness Factor	K	Obtain from chart	$\Sigma = 90^\circ$ $m = 3$ $\alpha_n = 20^\circ$ $z_1 = 20$ $z_2 = 40$ $\beta_m = 35^\circ$ $h_{a1} = 3.4275$ $h_{a2} = 1.6725$
2	Circular Tooth Thickness	s_1 s_2	$p - s_2$ $\frac{p}{2} - (h_{a1} - h_{a2}) \frac{\tan \alpha_n}{\cos \beta_m} - Km$	$K = 0.060$ $p = 9.4248$ $s_1 = 5.6722$ $s_2 = 3.7526$

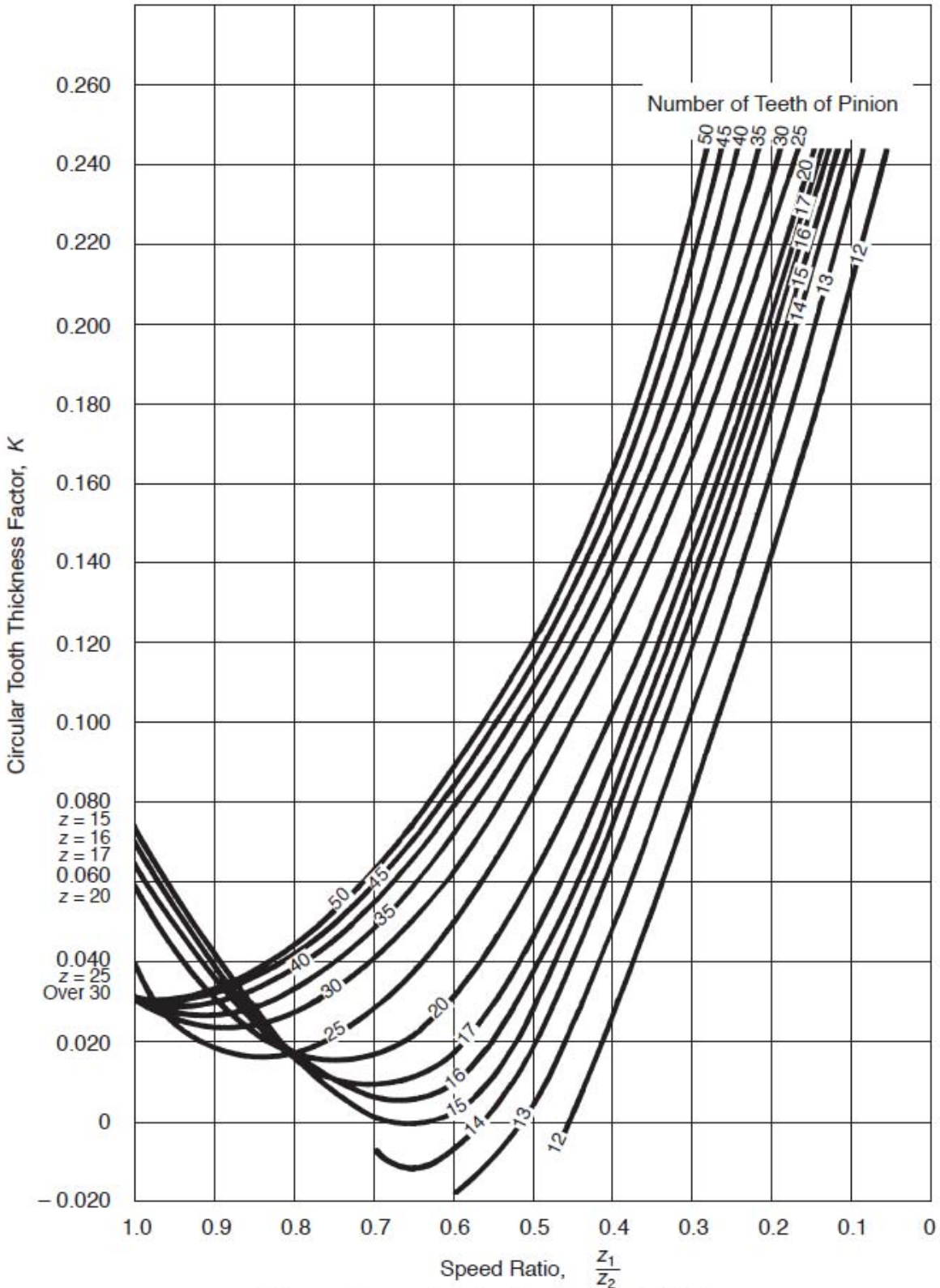


Chart to Determine the Circular Tooth Thickness Factor K for Gleason Spiral Bevel Gears