

Joliet, IL 60432

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Symbol for Rules and Formulas

а	Addendum	Pb	Base Pitch	Vs	Spacing Variation
ac	Chordal Addendum	Pm	True Position Pitch	Vx	Index Variation
anc	Normal Chordal Addendum	Pn	Normal Circular Pitch	VΦ	Profile Variation
В	Backlash	PN	Normal Base Pitch	VΦT	Profile Tolerance
b	Dedendum	Pt	Transverse Circular Pitch	<i>VΨ</i>	Tooth Alignment Variation
С	Center Distance	Px	Axial Pitch	VΨT	Tooth Alignment Tolerance
С	Clearance	PX	Axial Base Pitch	Z	Length of Action
D	Reference Standard Pitch Diameter	Q	Quality Number	α	Addendum Angle
Db	Base Diameter	Qa	Arc of Approach	Γ	Pitch Angle
Dc	Datum Circle	Qr	Arc of Recess	ΓR	Root Angle
Di	Internal Diameter	Ot	Arc of Action	Σ	Shaft Angle
DR	Root Diameter	Rr	Test Radius	ε	Involute Roll Angle
Dt	Throat Diameter	rf	Fillet Radius, (when constant)	ϑ	Involute Polar Angle
DO	Out side diameter	rt	Throat-form Radius	ΘΝ	Angular Pitch
dp	Operating Pitch Diameter	rr	Tip or Edge Radius of Tool	λ	Lead Angle
F	Face Width	t	Circular Tooth Thickness	λb	Base Lead Angle
Fe	Effective or Active Face Width	tb	Base Circular Thickness	λο	Outside Lead Angle
Ft	Total Face Width	tc	Chordal Thickness	λρ	Pitch Lead Angle
hk	Working Depth	tn	Normal Circular Thickness	р	Profile Radius of Curvature
ht	Whole Depth (tooth depth)	tnc	Normal Chordal Thickness	Φ	Pressure Angle



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Symbol for Rules and Formulas (cont)

1	Load	tr	Tooth Thickness Tolerance	Фп	Normal Proceure Angle
L	Lead	tr	TOOTH THICKNESS TOIETAILCE	ΨΠ	Normal Pressure Angle
m	Module	tt	Transverse Circular Thickness	Φt	Transverse Pressure Angle
mc	Contact Ratio	tx	Axial Thickness	Фх	Axial Pressure Angle
mF	Face Contact Ratio	Vap	Total Accumulated Pitch Variation	Ψ	Helix Angle, Spiral Angle
mG	Gear Ratio	Vapk	Total Accumulated Pitch Variation within a sector of k pitches	Ψb	Base Helix Angle
mn	Normal Module	Vcq	Total Composite Variation (double flank)	Α	Allowable Variation
mo	Modified Contact Ratio	VcqT	Total Composite Tolerance (double flank)	G	Features on a gear
mp	Transverse Contact Ratio	Vp	Pitch Variation	K	A Variable
mt	Total Contact Ratio	VpA	Allowable Pitch Variation	n	Normal Plane
N	Number of teeth or threads	Vpn	Normal Pitch Variation	Р	Features on a pinion
Ne	Equivalent Number of teeth	Vq	Tooth-to-Tooth Composite Variation (double flank)	T	Tolerance
Pd	Diametral Pitch (transverse)	VqT	Tooth-to-Tooth Composite Tolerance (double flank)	t	Transverse Plane
Pnd	Normal Diametral Pitch	Vr	Radial Runout	W	Features on a Worm
Р	Circular Pitch	VrT	Radial Runout Tolerance		