

TNGG 160404-Alu

Machining Conditions

Aluminium	Group No.	Material Examples*	Brinell hardness HB	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Si < 4%	13	AlMgSi 1	----	0.25	5.0	0.12	0.30	1.5	400	1200	0.5 to 3	0.23
4% < Si < 8%	13	AlSi 6 Cu 4	----			0.10	0.25	1.2	250	600		
Si > 8%	14	AlSi 12	----	Recommended to use TNGG 160404 NN - LT-10								

Cutting conditions for TNGG 160404 NN for high Si Aluminium

Si > 8%	14	AlSi 12	----	0.20	4.0	0.10	0.30	0.80	200	400	0.5 to 1.2	0.15
---------	----	---------	------	------	-----	------	------	------	-----	-----	------------	------

TNGG 160408-Alu

Aluminium	Group No.	Material Examples*	Brinell hardness HB	d.o.c [mm]		feed [mm/rev]		A max [mm ²]	V _c [m/min]		Optimal cutting conditions	
				min	max	min	max		min	max	d.o.c	feed
Si < 4%	13	AlMgSi 1	----	0.25	5.0	0.12	0.30	1.5	400	1200	0.5 to 3	0.23
4% < Si < 8%	13	AlSi 6 Cu 4	----			0.10	0.25	1.2	250	600		
Si > 8%	14	AlSi 12	----	Recommended to use TNGG 160404 NN - LT-10								

Cutting conditions for TNGG 160408 NN for high Si Aluminium

Si > 8%	14	AlSi 12	----	0.20	4.0	0.10	0.30	0.80	200	400	0.5 to 1.2	0.15
---------	----	---------	------	------	-----	------	------	------	-----	-----	------------	------

*For all material types and standards, see pages 240 to 245.