

Indicative surface roughness comparisons

R _a µm	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
R _a µm (CLA)	2000	1500	1000	500	250	125	63	32	16	8	4	2	1	.5

TUBE FINISHING

Hot Extruded	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
Cold Drawn							12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1
Smooth Bore							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
Electropolished							3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025

METAL CUTTING

sawing	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
planing, shaping							12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1
drilling							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
milling							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
boring, turning							12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1
broaching							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
reaming							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05

ABRASIVE

grinding	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
barrel finishing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
honing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
electro-polishing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
electrolytic grinding							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
polishing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
lapping							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
superfinishing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05

FORMING

hot rolling	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
forging							12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1
extruding							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
cold rolling, drawing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
roller burnishing							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05

OTHER

flame cutting	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
chemical milling							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
electron beam cutting							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
laser cutting							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05
EDM							6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05

R _a µm	50	37.5	25	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05	0.025	0.012
R _a µm (CLA)	2000	1500	1000	500	250	125	63	32	16	8	4	2	1	.5

Typical Range 

Surface Finish Comparison Guide

AW Chickering

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- Chapter 2: Essential Elements of Surface Finish Comparison Guide
- Chapter 3: Surface Finish Comparison Guide in Everyday Life
- Chapter 4: Surface Finish Comparison Guide in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Surface Finish Comparison Guide. This chapter will summarize the key points that have been discussed throughout the book.

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