Surface Finish Chart with Ra, N Grades and Typical Processes

Ra in µm and µin with ISO N grades; typical Ra ranges by process from general engineering references. The drawing governs. Source: tfon.com.tr/en/knowledge-base/surface-finish-chart

Surface finish chart

N grade	Ra µm	Ra µin
N12	50	2000
N11	25	1000
N10	12.5	500
N9	6.3	250
N8	3.2	125
N7	1.6	63
N6	0.8	32
N5	0.4	16
N4	0.2	8
N3	0.1	4
N2	0.05	2
N1	0.025	1

↑ rougher

↓ smoother

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Typical Ra by manufacturing process

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Average application ranges from general engineering references. Not guarantees; the drawing governs.

