

## Methods of indicating surface textures on drawings per ISO & DIN 1302

SYMBOLS	$\checkmark$	Symbol without additional indicator Basic symbol. The meaning must be explained by additional indications		
	3.2	Symbol with additional indications. Any production method, with specified roughness		
	$\forall$	Symbol without additional indications Removal of material by machining, without specified roughness.	1 the	
	3.2	Symbol with additional indications. Removal of material by machining, with specified roughness.	7	
		Symbol without additional indications. Removal of material is not permitted (surface remains in state as supplied).		
	3.2/	Symbol with additional indications. Made without removal of material (non-cutting), with specified roughness.		



SKI System Registrar				h
Teach New York In Construction of the New York N	NO	a =	Roughness value Ra in micro-meters or micro- inches or roughness grade number N1 to N12	d d
Regaration of the messagement owners of Nutricians. 1930 Generatio Drives La Porte, Institutes, USA anotices to a laborative programme and the inter SM regaration represented		) =	Production method, surface treatment or coating.	a/c(f)
2021 Sale Call 2021, Turber Card Callson appending the specific of this strength of this strength of the specific of the speci		c = d =	Sampling length Direction of lay	
Connect registration partial March 5, 2020 Design March 5, 2021		e =	Machining allowance.	e \ / d
		f =	Other roughness values, e.g. Rz	

<b>—</b>	Micrometer $\mu$ m	Micro-inch $\mu$ in	Grade Numbers	Grade Symbols
FINISH	50	2000	N12	
	25	1000	N11	$\sim$
Z	12.5	500	N10	$\sim$
	6.3	250	N9	
لعبا	3.2	125	N8	
$\bigcirc$	1.6	63	N7	
A	0.8	32	N6	
IRFA	0.4	16	N5	
R	0.2	. 8	N4	$\sim \sim \sim$
l)	0.1	. 4	N3	
SI	0.05	2	N2	
	0.025	1	N1	

For Customer Ser	vice Call Toll Free	Ra or Roughness average was once called AA or CLA is the most
Dover, OH	(800) 346-2601	common surface finish parameter across most industries and is typically
La Porte, IN	(800) 358-8466	measured over five cutoffs of data.
Titusville, PA	(800) 458-3847	Rq was once called RMS is roughly 11% higher than Ra
Rome, GA	(800) 766-6066	
Los Angeles, CA	(888) 324-2102	Visit our web site at: <u>http://www.CommercialFluidPower.com</u>