

Surface Finishes Welded and Seamless

Stainless Steel Tube, Pipe, and Fittings

Sanitary and BPE Mechanically Polished Inside Diameter (ID) and Outside Diameter (OD)

Inside Diameter		Outside Diameter		Surface Finish Code						
R _a (max) Surface Treatment		R _a (max)	Surface Treatment	Dixon	ASME BPE	Alfa- Laval	S&O	TopLine	VNE	SPX
	Mill		Mill		SF0		PU or #1		PX	#0 (PU)
	Mill	32	Mechanical Polish				#5			
20	Mechanical Polish		Mill		SF1		PC	No. 3	PC	#3 (PC)
20	Mechanical Polish	32	Mechanical Polish	PL	SF1	PL	PL	No. 7	PL	#7 (PL)
25	Mechanical Polish	32	Mechanical Polish		SF2					
30	Mechanical Polish	32	Mechanical Polish		SF3					
32	Mechanical Polish		Mill				#3			
32	Mechanical Polish	32	Mechanical Polish				#7			

Sanitary and BPE Electro Polished ID and Mechanically Polished OD

Inside Diameter		Outside Diameter		Surface Finish Code						
R _a (max)			Surface Treatment	Dixon	ASME BPE	Alfa- Laval	S&O	TopLine	VNE	SPX
15	Electro Polish		Mill		SF4		PD	No. 3 EP	PD	#3E (PD)
15	Electro Polish	32	Mechanical Polish	PM	SF4	PM	PM	No. 7 EP	PM	#7E (PM)
10	Electro Polish		Mill							#3E (PJ)
10	Electro Polish	32	Mechanical Polish						PR	#7E (PR)
20	Electro Polish	32	Mechanical Polish		SF5					
25	Electro Polish	32	Mechanical Polish		SF6					

Finish Designations

Finish Number		Description				
Dixon	Others	Description				
U	1	Mill Finish (bright annealed, pickled, sand blasted, or tumbled)				
	3	Polished 32 R _a ID only				
	5	Polished 32 R _a OD only				
Р	7	Polished 32 R _a ID & OD				
	3A	Polished 150 grit OD, 32 R, ID				

Surface Finish - Sheet

			a
Finish Number	Description	Grit	R_{a}
#1	Rough, dull, non-uniform appearance	36	142
#2B	Slightly reflective, like a cloudy mirror	60	87
#2D	Uniform, dull silver-gray appearance	80	70
BA or 2BA	Bright annealed - mirror-like with some cloudiness	120	52
""	Also known as grinding, roughing or rough grinding, coarse finish	150	42
#3	usually applied before manufacturing	180	32
#4 Architectural	AKA brushed, directional, or satin finish, fine uniform polishing lines	180 + EP	25
"40 "	Much finer than #4 architectural finish, enhancing physical	240	20
#4 Sanitary	appearance	240 + EP	15
#6	AKA fine satin finish, less reflective than #4 architectural finish	320	10
#7	Semi-bright finish with some very dull polishing lines	320 + EP	5-10
#8	AKA mirror finish	400	9
	1	Mirror	4±

Common Names

Common Name	R _a (µ-In)	Grit Number	USA Finish	Rmax (µ-ln)	ISO Number	ASTM STD R_a (μ -In)	Japanese STD	
	2000			7875	N12			
	1000			3940	N11			
	500			1968	N10	140 max		
Mill Plate	250	60	#1	985	N9			
	125			492	N8			
Satin Sheet	70 max, 40-60	80	#2					
	63				N7			
	52	100 to 120	#3					
Commercial #3	40-60	120	#4			45 max		
Sanitary/Dairy Finish	42 max, 30-35	150	#4					
ANSI #4	32			126	N6			
3A Sanitary Finish	32 max, 20-32	180	#4			25 max	Buff #100	
Biotech Finish	25 max, 20-25	200 to 220	#4					
Fine Satin Finish	15-20	240	#6			8-20		
	16			63	N5	6-15		
Semi-Bright Finish	12 max, 8-12	320	#7					
	12			59			Buff #200	
	8			31	N4		Buff #300	
Mirror Finish	4-8	400	#8					
Super-Mirror Finish	<4, 3-8	500	#8					
Super-Mirror Finish	4	500	#8	16	N3		Buff #400 (approx)	
	2			8	N2			
	1			4	N1			

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