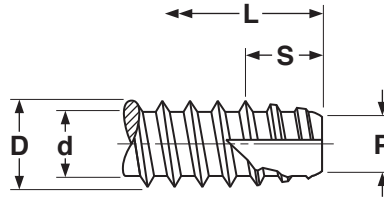


Type 25

THREAD CUTTING



FASTENERS & COMPONENTS

THREADS FOR THREAD CUTTING SCREWS TYPE 25													ASME B18.6.3--2010
Nominal Size or Basic Screw Diameter	Threads Per Inch	D		d		P	S		L			Minimum Torsional Strength, lb.-in. (STEEL SCREWS ONLY)	
		Major Diameter		Minor Diameter		Point Diameter	Point Taper Length		Minimum Practical Screw Length				
		Max	Min	Max	Min	Ref	Max	Min	90° Heads	Csk Heads			
2	.0860	32	.088	.082	.064	.060	.058	.062	.047	5/32	3/16	4	
4	.1120	24	.114	.108	.086	.082	.079	.083	.063	3/16	1/4	13	
5	.1250	20	.130	.123	.094	.090	.087	.100	.075	7/32	9/32	18	
6	.1380	20	.139	.132	.104	.099	.095	.100	.075	1/4	9/32	24	
7	.1510	19	.154	.147	.115	.109	.105	.105	.079	1/4	5/16	30	
8	.1640	18	.166	.159	.122	.116	.112	.111	.083	9/32	11/32	39	
10	.1900	16	.189	.182	.141	.135	.130	.125	.094	5/16	3/8	56	
12	.2160	14	.215	.208	.164	.157	.152	.143	.107	11/32	7/16	88	
1/4	.2500	14	.246	.237	.192	.185	.179	.143	.107	3/8	1/2	142	
5/16	.3125	12	.315	.306	.244	.236	.230	.167	.125	15/32	19/32	290	
3/8	.3750	12	.380	.371	.309	.299	.293	.167	.125	17/32	11/16	590	
<b>Tolerance on Length</b>		Up to 3/4", Incl.: -0.03						Over 3/4" to 1-1/2", Incl.: -0.05					

Description	A thread cutting screw with spaced threads, a blunt point, tapered entering threads, a single wide cutting edge, and a chip cavity.		
	Steel	Stainless	
<b>Applications/ Advantages</b>	For molded or through holes in plastics and other soft materials. Provides excellent chip clearing capability.	Stainless screws offer greater corrosion resistance than steel screws but have a more limited range of applications due to being a softer metal. When using any thread-cutting screw, the material in which the threads are cut should have a lower hardness by 10-20 Rockwell hardness points.	
<b>Material</b>	AISI 1016 - 1024 or equivalent steel.	18-8 Stainless	410 Stainless
<b>Heat Treatment</b>	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.	18-8 thread-cutting screws are not heat-treated.	Screws shall be annealed by heating to 1850-1950°F, held at least for 1/2 hour and rapid air- or oil-quenched then reheating to 525°F minimum for at least 1 hour and air cooled to provide the required tensile, yield and hardness properties
<b>Surface Hardness</b>	Rockwell C45 minimum	-	
<b>Case Depth</b>	No. 4 thru 6 diameter: .002 - .007 No. 8 thru 10 diameter: .004 - .009 1/4" diameter and larger: .005 - .011	-	-
<b>Core Hardness (after tempering)</b>	Rockwell C28 - 38	Rockwell B90 - C20	Rockwell C38 - 42
<b>Plating</b>	See Appendix-A for plating information.		