

THREADS FOR THREAD CUTTING SCREWS TYPE 25  ASMI B18.6.4-1996												
Nominal Size or Basic Screw Diameter		Threads Per Inch	D Major Diameter		d Minor Diameter		P Point Diameter	S Point Taper Length		L Minimum Practical Screw Length		Minimum Torsional Strength, lb in.
			2	.0860	32	.088	.082	.064	.060	.058	.062	.047
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
Tolerance on Length			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				
Applications/ Advantages	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 a lower hardness by 10-20 Rockwell hardness points.				
Material	AISI 1016 - 1024 or equivalent steel.	18-8 stainless steel.				
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.	18-8 thread-cutting screws are not heat-treated.				
Surface Hardness	Rockwell C45 minimum	-				
Case Depth	No. 4 thru 6 diameter: .002007 No. 8 thru 10 diameter: .004009 1/4" diameter and larger: .005011	-				
Core Hardness (after tempering)	Rockwell C28 - 38	Rockwell B90 - C20				
Plating	See Appendix-A for plating information.					