

# AUVECO THIN SHEET NUTSERT® INSERTS

U.S.S., S.A.E. & Metric - Steel and Aluminum

## Sec. 9

### Threaded Inserts for Thin Material

The Auveco Thin Sheet Nutsert has been designed to provide a highly efficient method of securing threads from one side of the work, in materials generally too thin to support threads. Its performance has been proven in plastic, aluminum, mild steel and fiberglass. They can also withstand high loads without vibrating or loosening under extreme operating conditions. The Auveco Thin Sheet Nutsert is a tension fastener with high pull out, insuring no rotation or vibration where a cover plate is used. The system's unique blind tooling installs TSNs at consistent rates using unskilled labor.

### How it Works

The Thin Sheet Nutsert, held securely by the tool, is placed into a prepared hole. Upon the tool's actuation, the threaded portion is pulled until the fastener's wall collapses radially outward, clinching it tight against the sheet. The tool is withdrawn, leaving the Thin Sheet Nutsert ready to receive a bolt or screw. This complete operation takes only a few seconds and can be performed by anyone.



**Strength Tests:** Torque Strength: with an attaching part over the Thin Sheet Nutsert, offering a bearing surface, the TSN will remain intact past the point of the screw or bolt breaking (head torqued off). In almost all cases the threads of the TSN will remain undistorted and serviceable; an exception to this statement is when an extremely high tensile bolt is used.

**Steel:** 1010 Low Carbon Steel, Type 11 Class 3 with Zinc Plate, Clear Chromate  
**Aluminum:** Aluminum Alloy 5056, Plain Finish, Metric Class 6H, U.S. Class 2B

To set Nutserts, Use tool 11805 & Conversion Kits listed on Page 163.

### U.S.S. & S.A.E.

Auveco Part No.	Unit	Thread Size	Recommended	A	B	D	Hole	Drill	
Steel	Aluminum	after Installation	Grip Range	Max.	Max.	Ref.	Size	Size	
11310	13476	50	6-32 U.S.S.	.020-.080"	.249"	.410"	.287"	.250-.254"	1/4"
11315	13477	100							
11311		50	8-32 U.S.S.	.020-.080"	.249"	.410"	.287"	.250-.254"	1/4"
11316		100							
11312	13480	50	10-24 U.S.S.	.020-.130"	.280"	.465"	.320"	.281-.285"	9/32"
11317	13481	100							
12978		50	10-32 S.A.E.	.020-.130"	.280"	.465"	.320"	.281-.285"	9/32"
12979		100							
11313		25	1/4"-20 U.S.S.	.030-.165"	.347"	.610"	.415"	.375-.379"	3/8"
11318		100							
11314		25	5/16"-18 U.S.S.	.040-.200"	.499"	.720"	.540"	.500-.504"	1/2"
11319		100							
16785*		15	3/8"-16 U.S.S.	.040-.200"	.499"	.720"	.540"	.500-.504"	1/2"

\*Cannot be set with Auveco tool 11805, requires pneumatic tool.

### Regular Pitch Metric

Auveco Part No.		Unit Pkg.	Thread Size after Installation	Recommended Grip Range	A Max.	B Max.	D Ref.	Hole Size	Drill Size
Steel	Aluminum								
<b>12980</b>		50	M4-.7	.020-.080" .508/2.030mm	.249" 6.32mm	.410" 10.41mm	.287" 7.29mm	.250-.254" 6.35mm/6.45mm	1/4"
<b>12981</b>		100							
<b>12982</b>		50	M5-.8	.020-.130" .508/3.300mm	.280" 7.11mm	.465" 11.81mm	.320" 8.13mm	.281-.285" 7.14/7.24mm	9/32"
<b>12983</b>		100							
<b>12984</b>	<b>13494</b>	25	M6-1.0	.030-.165" .762/4.190mm	.374" 9.50mm	.610" 15.49mm	.415" 10.54mm	.375-.379" 9.53/9.63mm	3/8"
<b>12985</b>	<b>13495</b>	100							
<b>12986</b>		25	M8-1.25	.040-.200" 1.020/5.080mm	.499" 12.67mm	.720" 18.29mm	.540" 13.72mm	.500-.504" 12.71/12.80mm	1/2"
<b>12987</b>		100							

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