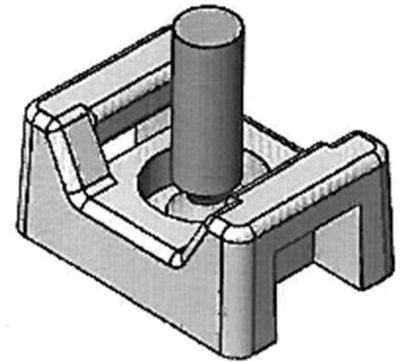
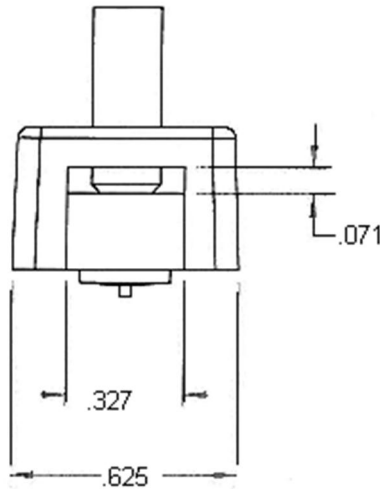
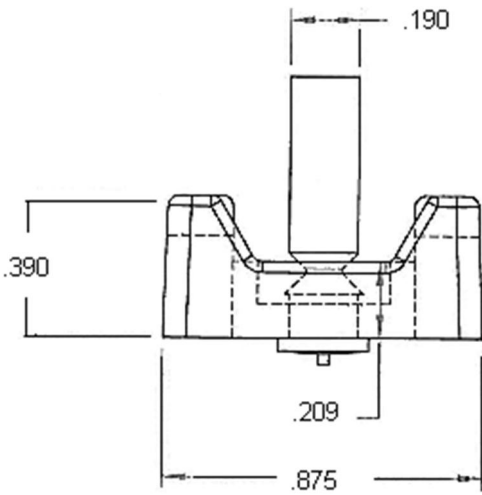




# CD STUDS: WIRE TIE DOWN

**To order or specify give:**  
 Product Code: CD WT Material: Specify



<b>STUD</b>	<b>MATERIAL</b>	<b>ALUMINUM</b> Grade . 5000 Series	<b>STAINLESS STEEL</b> AISI grade 302 HQ
	<b>MECHANICAL PROPERTIES</b>	Tensile $\bar{\sigma}$ $\bar{\sigma}$ $\bar{\sigma}$ . 45,000 psi (min) Yield $\bar{\sigma}$ $\bar{\sigma}$ $\bar{\sigma}$ $\bar{\sigma}$ 25,000 psi (min)	Tensile $\bar{\sigma}$ ..85,000 psi (min.) Yield $\bar{\sigma}$ $\bar{\sigma}$ .40,000 psi (min.)

<b>SADDLE</b>	<b>MATERIAL</b>	Nylon 6/6
	<b>MECHANICAL PROPERTIES</b>	Call for Details

[www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com)

**Sunbelt Stud Welding, Inc.**  
 6381 Windfern Road  
 Houston, Texas 77040-4915



**1-800-462-9353**  
**713-939-8903**  
 fax **713-939-9013**



# WIRE TIE DOWN STUDS MECHANICAL PROPERTIES

Property	ASTM Method	Test Condition	Units	Nylon 6/6
Tensile Strength	D638	+73°F; 50% RH	kpsi	11.2
Elongation at Break	D638	+73°F; 50% RH	%	>=300
Yield Strength	D639	+73°F; 50% RH	kpsi	8.5
Shear Strength	D732	Dry as Molded (DAM)	kpsi	9.6
Deformation Under Load	D621	2,000 psi; +122°F; DAM	%	1.4
IZOD Impact	D256	+73°F; 50% RH	ft lb/in	2.1
Tensile Impact Strength	D1822	+73°F; Long Specimen; DAM	ft lb/in	240
Melting Point	D789	Fisher-Johns	°F	491
Thermal Linear Expansion	D696	DAM	in/in/°F	TBD
Thermal Conductivity	--	DAM Conche-Fitch	BTU-in/h*ft*°F	1.7
Brittleness Temperature	D746	50% RH	°F	-85
Oxygen Index	D2863	DAM	%0	28
Oxygen Index	D2864	50% RH	%0	31
UL Flammability	UL 94	DAM	--	V-2
UL Flammability	UL 95	50% RH	--	V-2

Nylon 6/6 NBS Smoke Generation				
Sample Thickness	UL Flammability	Energy Source	Specific Optical Density	
			At Maximum Smoke Accumulation	At 2 Minutes
1/16"	94 V-2	Radiant (2.5 watts/sq. cm)	13	0
1/8"	94 V-2	Radiant Plus Flaming Gas Jets	26	1

Nylon 6/6 Temperature Index			
Minimum Thickness	Electrical (°C)	Mechanical w/o Impact (°C)	Hot Wire Ignition (sec)
0.028	125	65	11.8
0.058	125	85	15.0

Nylon Wire Tie Mechanical Dimensions			Retaining Stud			
	<b>Inch</b>	<b>mm</b>	<b>Material:</b> 302 HQ SS; Ultimate Tensile 85 KPSI			
<b>Height</b>	0.390	9.90	<b>Size:</b> Equivalent to U.S. #10			
<b>Length</b>	0.875	22.22	<b>CHEMISTRY:</b>			
<b>Width</b>	0.625	15.87	<b>C</b> 0.017	<b>Mo</b> 0.05	<b>Ni</b> 9.54	<b>Co</b> Trace
<b>Slot Height</b>	0.090	2.29	<b>S</b> 0.001	<b>Mn</b> 0.83	<b>Cu</b> 3.07	<b>N</b> PPM 155
<b>Slot Width</b>	0.325	8.26	<b>Cr</b> 17.5	<b>Si</b> 0.32	<b>P</b> 0.024	<b>Fe</b> Remainder

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