



**RANCO INDUSTRIES, INC**

**HDT ANTI-FATIGUE MAT**

**HDT (Heavy-Duty Top) Anti Fatigue**

In a rigorous environment, exceptional comfort, dimensional stability and durability are the hallmarks of a successful anti-fatigue mat. Our HDT products are manufactured from specially formulated proprietary low static formulation vinyl compounds. HDT mats are a superior value with puncture resistance that exceeds comparable rubber products by over 90%. This increased spike resistance helps eliminate premature failure due to exposure to casters, heels, and other sharp objects. These materials are only available through the Rhino Mats and Matting division Ranco Industries.

- Top component (HDT wear surface) of mat shall be a solid (not expanded or cellular) polymeric surface that measures .160" thick. This surface shall be permanently bonded to a 3/8" or 3/4" thick closed cell polymeric sponge base, comprised of polyvinyl chloride, acrylonitrile butadiene rubber and chloroprene with a minimum density of 7 lbs./cubic foot. Overall thickness including HDT surface 9/16" or 1".
- Sponge base shall be beveled to within 1½" of the top surface to effectively taper the edges of the surface to the floor and create a visibly bonded incline around the perimeter of the mat, and seal the edge of the beveled sponge to the surface.

**Physical Properties and Specifications**

<b>Characteristic</b>	<b>Test Method</b>	<b>Result</b>
Tensile Strength	ASTM D-412	850 lbs. / sq. in. min.
Elongation	ASTM D-412	140% min.
Puncture Resistance	ASTM D-1046(Section 19)	36.5 Pounds
Taber Abrasion Resistance (Surface)	ASTM D-4060, 1000 Grams, 1000 Revs CS-17 wheel H-22 wheel	.1 grams lost .22 grams lost
Flammability	Motor Vehicle Safety Standard No. 302(49CFR 541.302)	Self-Extinguishing (A)
Surface Hardness (Shore A)	ASTM D-2240	85+/5
Graves Tear Strength:	ASTM D-1004	135 lb/in min.
Wear Surface Thickness	Calipers	5/32 inches
Slip Resistance of Composites:		
On Tile Floor	Scales	1.8 Pounds Force
On Carpeted Surface		3.8 Pounds Force
Density (Sponge)		7 lbs. / ft. <sup>3</sup>
25% Compression Resistance (PSI)	ASTM D-1056	5.0 – 8.0
50% Compression Set (%)	ASTM D-1056	25 max.
Overall Thickness	Gauge	9/16 inches Heavy Duty 1 inch Super Duty
Weight	1.1 lbs. sq. ft. 1.3 lbs, sq. ft.	9/16" 1"

**Chemical Resistance (Surface)**

<b>Chemical</b>	<b>Ranking</b>	<b>Chemical</b>	<b>Ranking</b>
Butyl Alcohol	Good	Nitric Acid (dilute)	Excellent
Carbon Tetrachloride	Good	Nitric Acid 30%	Excellent
Chromic Acid (dilute)	Great	Potassium Permanganate(dilute)	Good
Gasoline	Great	Sodium Perborate	Good
Hydrogen Peroxide (dilute)	Good	Sodium Hydroxide	Good
Most Acids	Good	Sulfuric Acid (dilute)	Good
Most alkalis	Good	Water	Excellent