

WARRANTY & SALES TERMS

RETURNED GOODS POLICY

KOCH INDUSTRIES, INC. WILL ACCEPT THE RETURN OF PRODUCT FOR CREDIT ONLY WHEN THE CUSTOMER HAS BEEN OFFICIALLY AUTHORIZED IN WRITING BY KOCH INDUSTRIES, INC.'S CUSTOMER SERVICE DEPARTMENT.

All returned items will be subject to inspection, must be of current design and finish, and must be in a resalable condition upon receipt at the location designated by Koch Industries, Inc. Items not normally carried in stock or specially packaged items are non-returnable. Only full packs in the original packaging are returnable. Items price ticketed or otherwise marked are also non-returnable. Koch Industries, Inc. reserves the right to establish a minimum dollar return amount and to decline granting a requested Returned Goods Authorization for any reason. Proof of purchase must be established on all returned items. Koch Industries, Inc. may reject returns not received by Koch Industries, Inc. within 90 days after Koch Industries, Inc.'s original invoice date for the items to be returned. The price shown on the Request for Return must coincide with the original invoice price. Koch Industries, Inc.'s Order Number and Invoice Number are to be furnished at the time of request for return to expedite the processing of Return Goods Authorization forms. After you have received authorization, all returns must be shipped to the designated location, freight prepaid and allowed, FOB destination. Collect shipments of returned items may be rejected by Koch Industries, Inc. The Returned Goods Authorization will be valid for 30 days from date of issue. A 20% restocking charge will apply to all returned merchandise plus any out bound freight costs. Each return shipment of items received by Koch Industries, Inc. that is not within the guidelines of this policy (e.g., non-Koch items and items not in resalable condition) may be subject to a minimum \$50 handling/inspection charge in addition to out-bound freight charges.

NOTICE: Koch Industries, Inc. assumes no responsibility for the use or misapplication of any of its products. Products are provided with the express understanding that the purchaser or user, are thoroughly familiar with the correct application and use.

LIMITED WARRANTY

Koch Industries, Inc. warrants that its products will not be defective at the time of shipment by Koch Industries, Inc. If you believe you have a warranty claim, you must notify Koch Industries, Inc. of the defect within 10 days after the alleged defect is discovered, request a Return of Goods Authorization from Koch Industries, Inc.'s Customer Service Department and return the products to Koch Industries, Inc., freight and insurance prepaid, along with proof of purchase and a description of the claimed defect. Defective product must be received by Koch Industries, Inc. within 90 days after Koch Industries, Inc.'s original invoice date for the product to be returned. The products will be inspected, and if found defective, will (at Koch Industries, Inc.'s option) be repaired, replaced or your purchase price will be refunded to you. Return freight within the United States on defective products covered by this warranty will be returned at no charge to you at your return address unless you specify otherwise. If warranty coverage is not applicable, the products will be returned to you at your expense and you may be subject to a minimum \$50 handling/inspection charge. THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF WARRANTY IS, AT KOCH INDUSTRIES INC.'S OPTION, PRODUCT REPLACEMENT, REPAIR OR REFUND OF THE PURCHASE PRICE. NO WARRANTY OTHER THAN THIS LIMITED WARRANTY IS MADE AND THE PRODUCTS ARE OTHERWISE SOLD ON AN "AS-IS" BASIS WITH NO OTHER EXPRESS OR IMPLIED WARRANTIES. ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE ARE EXPRESSLY DISCLAIMED.

LIMITATION OF LIABILITY

KOCH INDUSTRIES, INC. SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER INDIRECT DAMAGES, INCLUDING WITHOUT LIMITATION, DAMAGES OR INJURY CAUSED BY DEFECT, FAILURE OR OTHERWISE, WHETHER ARISING UNDER WARRANTY, CONTRACT, NEGLIGENCE OR OTHERWISE. IN NO EVENT SHALL KOCH INDUSTRIES, INC.'S LIABILITY UNDER ANY CAUSE OF ACTION RELATING TO ANY PRODUCT EXCEED THE PURCHASE PRICE OF SUCH PRODUCT.

The terms set forth in the sections above are agreed upon allocations of risk based on the terms of each sale of product by Koch Industries, Inc. Such terms constitute the entire agreement of the parties with respect to this subject matter, are deemed accepted upon any product order placed with Koch Industries, Inc. and shall prevail over any contrary, additional or different terms not agreed to by an executive of Koch Industries, Inc. in a signed, non-preprinted document.

SHIPPING FREIGHT TERMS

F.O.B. Shipping Point, freight prepaid and allowed at lowest published tariff rate on a single purchase order of 1,000 pounds or more to a single destination within the continental United States. Shipments to Alaska, Hawaii, Mexico, Puerto Rico and Canada will be made from nearest shipping point freight prepaid to point of exit of the continental USA border. (Orders for hardware and/or snaps only that exceed \$500.00 also qualify for prepaid freight).

Koch Industries reserves the exclusive right to make all shipments by the carrier and routing of our choice. Requests for special handling will result in additional handling charges.

PAYMENT TERMS

Net 30 Days upon establishment of approved credit. Past due accounts are subject to a 2% per month fee on all unpaid balances.

Please contact our customer service department if you believe an error exists on an invoice. If an error is found, a credit will be issued against the invoice. Please do not debit. Koch Industries cannot accept any deductions for handling, service fees, penalties, or debits or any type. Invoices that are not paid in full and within the allotted terms may delay future shipments.

Minimum Order Charge: \$150.00

C.O.D. Sorry but No Cash On Delivery orders can be accepted. Cash in advance service is available and may be arranged with our Customer Service department.

Pack Quantities: All orders will be adjusted to standard package quantities without notice to the customer.

DISCREPANCIES

If you believe there is a discrepancy in your shipment, you should contact Customer Service within five days of receipt. Obvious freight company shortages should be filed by you with the freight company. Koch Industries will assist you to the extent of our ability, but the claim must be filed by you, as the product was shipped F.O.B. Shipping Point. Record all obvious freight damage or shortages with the driver at time of delivery and retain a signed receipt acknowledging the freight damage or shortage.

DEFINITIONS & WARNINGS



*Warranty, Terms of Sale
Definitions & Warnings*

Abrasion: Frictional surface wear on the product and/or components.

Acceleration Stress: The additional stress that is imposed on the product as a result of an increase in load velocity.

Breaking Strength: The ultimate load at which a tensile strength failure occurs in the representative samples being tested. Breaking strength is a manufacturing test in which a load is applied to the representative sample product under increasing force applied by a testing machine. Breaking strength should not be used for design, service, or application purposes. Koch Industries does not normally refer to breaking strengths in any of its publications.

Design Factor: The ratio of the nominal strength to the total breaking load.

Fitting: Any functional accessory attached to a chain, rope, or wire rope. This term may be loosely applied to any product shown in this publication.

Minimum Break Load / Ultimate Load Limit: This is a manufacturing test in which a load in pounds is applied to a representative sample of the product under increasing force as applied by a testing machine. This is a manufacturing test and is not intended for service or design purposes.

Proof Test: This is a manufacturing test referring to a load in pounds which the product has withstood during a test in which an increasing tension is applied to the product.

Shock Loads: which exceed the static load caused by a rapid change of movement like jerking, impacting, dropping, swinging of load, or a rapid stop of the load at the end of the products length are difficult to calculate and should be avoided. Working Load Limit ratings will not apply in this case.

Working Load Limit: The maximum load or rated capacity in pounds that shall be applied in direct tension and with steady force to a straight length of chain, cable, rope, fitting, or other attachment under normal conditions. Shock loads, acceleration stress, non-straight line loading, or other extraordinary conditions should be avoided when using these products. The working load limit should never be exceeded.

Matching Components: All attachments used with chain, wire rope, and cordage must be of suitable material, type, and strength to provide adequate safety protection. All attachments should have a minimum working load limit rating at least equal to (and no less than) the other components with which they are used.

Regular Inspections: Inspect products regularly and before application for visible damage, cracks, wear, elongation, corrosion, or any other signs of damage. Any product showing signs of damage should be immediately withdrawn from service and disposed of.

***CORDAGE SPECIAL WARNINGS AND CAUTIONS:**

Working Load Limits and other ratings shown in this publication are applicable only to new or "in as new" condition products. Merchandise not marked with "Working Load Limit" are non-load rated applications only and should not be used in critical lifting or tension situations.

Working Load Limit: Indicates the greatest load a product can carry under normal conditions. Factors that will reduce the load capacity include shock loads, acceleration of the load, product damage, twisting, knotting, kinking, corrosion, elongation, or damage of any type to the product making it in less than a "new condition". Any product that is damaged should be immediately withdrawn from service and permanently discarded in a manner to insure that the product will not be used again.

Working load limits are based on data from manufacturers and their products. Working load limits are determined on a design factor ration of the minimum breaking strength of the product in a new condition. Design factors set by the Cordage Institute vary from 5-12 for non-critical applications. Because of the infinite number of cordage constructions, materials, uses and conditions, it is not realistic or possible to make a standard blanket working load limit recommendation. Working load limits published in the catalog are applied to rope in a new condition and under non-critical applications, with normal service conditions. Normal service is generally considered to be use under minimal dynamic or mild static load conditions. Never exceed the working load limit. Never allow anyone to stand in line or along side a rope under tension. If the rope fails, serious damage, injury or death may result from the recoil of the rope or from any parts or attachments.

Design factors should only be selected with expert knowledge of use and conditions.

Rope recoils in an oscillating, unpredictable path, away from the point of failure with great impact. Select your rope and any connecting hardware specific for the use and conditions. Match all components working load limits. Inspect rope and its components on a regular basis. Take any product showing cuts, worn or frayed lengths, or any other deformation out of service.

Rope will last longer under proper care, storage and use. Please keep safety foremost in your mind when using any product. Misuse of any product may result in damage to property, personal injury or death.

Koch Industries reserves the right to change specifications, dimensions, ratings, etc. at any time and without notification. Exact dimensional or design requirements should be confirmed before time of purchase. All dimensions are nominal and all weights are approximate.

A Situation of Critical Conditions of Use is a factor and the advice of an expert should be solicited if any of the following situations exist:

1. Load forces are not accurately known.
2. Users of the product are unfamiliar with the product or not properly trained.
3. Inspection is infrequent or the rope has been in service for a long period of time, or in service under severe conditions.
4. Small diameter ropes are being used.
5. Shock loads or high dynamic loads are possible.
6. Tension is maintained on the rope for a long period of time.
7. Rope is subjected to sharp radius bends, small diameter pulleys or sheaves.
8. Chemicals, dirt, abrasion, or high temperatures are present.
9. Knots are being used. A knot can reduce the rope's strength by 50 percent.

CONVERSION TABLE

Multiply	By	To Obtain	Multiply	By	To Obtain	Multiply	By	To Obtain
Acre - Feet	43560	Cubic Feet	Gallons	231.0	Cubic Inches	Millimeters	.1	Centimeters
Acre - Feet	1233.49	Cubic Meters	Gallons	.003785	Cubic Meters	Millimeters	.03937	Inches
Acres	.4047	Hectares	Gallons	.004951	Cubic Yards	Millimeters	.003281	Feet
Acres	43560	Square Feet	Gallons	.83267	Gallons (Imperial)	Mils	.001	Inches
Acres	4047	Square Meters	Gallons	3.785	Liters	Newtons	.1020	Kilograms
Barrels (Oil)	42	Gallons	Gallons	8	Pints (Liquid)	Newtons	.2248	Pounds
Board Foot	144	Cubic Inches	Gallons	8.3453	Pounds of Water	Ounces	28.349527	Grams
Bolts (US Cloth)	40	Yards	Gallons	4	Quarts (Liquid)	Ounces	.9115	Ounces (Troy)
B.T.U.	778.2	Foot-Pounds	Gallons (Imperial)	1.20095	Gallons	Ounces	.0625	Pounds
Bushels	1.2445	Cubic Feet	Gallons Per Minute	8.0208	Cubic Feet/Hours	Ounces (Fluid)	1.805	Cubic Inches
Bushels	2150.4	Cubic Inches	Grams	.001	Kilograms	Ounces (Fluid)	.02957	Liters
Bushels	0.03524	Cubic Meters	Grams	1,000	Milligrams	Pecks	.25	Bushels
Centigrams	.01	Grams	Grams	.03527	Ounces	Pecks	537.605	Cubic Inches
Centiliters	.01	Liters	Grams	.002205	Pounds	Pecks	8	Quarts (Dry)
Centimeters	.03281	Feet	Hands	4	Inches	Pi	1	3.141592654
Centimeters	.3937	Inches	Hectares	2.471	Acres	Pints (Liquid)	.01671	Cubic Feet
Centimeters	.01	Meters	Hectares	10,000	Square Meters	Pints (Liquid)	28.87	Cubic Inches
Centimeters	10	Millimeters	Hectares	107,600	Square Feet	Pints (Liquid)	.125	Gallons
Chains	792	Inches	Horsepower	33,000	Foot-Pounds/Minute	Pints (Liquid)	.4732	Liters
Chains	20.12	Meters	Inches	2.54	Centimeters	Pints (Liquid)	.75	Quarts (Liquid)
Chains	22	Yards	Inches	.0254	Meters	Pounds	.45359237	Kilograms
Circumference	6.2832	Radians	Inches	25.4	Millimeters	Pounds	16	Ounces
Cord Feet	16	Cubic Feet	Inches	1,000	Mils	Pounds	32.17	Poundals
Cubic Centimeters	3.531x10-5	Cubic Feet	Inches	.02778	Yards	Pounds	.0005	Tons
Cubic Centimeters	.06102	Cubic Inches	Joules	.7376	Foot-Pounds	Quarts (Liquid)	946.4	Cubic Centimeters
Cubic Feet	28320	Cubic Centimeters	Kilograms	1,000	Grams	Quarts (Liquid)	.03342	Cubic Feet
Cubic Feet	1728	Cubic Inches	Kilograms	2.205	Pounds	Quarts (Liquid)	57.75	Cubic Inches
Cubic Feet	.02832	Cubic Meters	Kilometers	100,000	Centimeters	Quarts (Liquid)	.25	Gallons
Cubic Feet	.03704	Cubic Yards	Kilometers	3,281	Feet	Rods	.25	Chains
Cubic Feet	7.48052	Gallons	Kilometers	1,000	Meters	Rods	16.5	Feet
Cubic Feet	28.32	Liters	Kilometers	.6214	Miles	Rods	5.029	Meters
Cubic Inches	16.39	Cubic Centimeters	Kilometers	1,094	Yards	Rods	5.5	Yards
Cubic Inches	5.787x10-4	Cubic Feet	Knots	1.689	Feet/Second	Slugs	32.17	Pounds
Cubic Inches	1.639x10-5	Cubic Meters	Knots	1.151	Miles/Hours	Square Centimeters	.001076	Square Feet
Cubic Inches	2.143x10-5	Cubic Yards	Knots	1	Nautical Miles/Hour	Square Centimeters	.1550	Square Inches
Cubic Meters	35.31	Cubic Feet	Leagues	3	Miles (Nautical)	Square Feet	2.296x10-5	Acres
Cubic Meters	61023	Cubic Inches	Light Years	5.9x10 ¹²	Miles	Square Feet	929.0	Square Centimeters
Cubic Meters	1.308	Cubic Yards	Liters	1,000	Cubic Centimeters	Square Feet	144	Square Inches
Cubic Yards	27	Cubic Feet	Liters	.03531	Cubic Feet	Square Feet	1.111	Square Yards
Cubic Yards	46656	Cubic Inches	Liters	61.02	Cubic Inches	Square Inches	6.452	Square Centimeters
Cubic Yards	.7646	Cubic Meters	Liters	.001	Cubic Meters	Square Inches	.006944	Square Feet
Days	86400	Seconds	Liters	.001308	Cubic Yards	Square Meters	10.76	Square Feet
Degrees (Celsius)	(Cx9/5)+32	Degrees (Fahrenheit)	Liters	.2642	Gallons	Square Meters	1.196	Square Yards
Degrees (Celsius)	C+273.15	Degrees (Kelvin)	Liters	2.113	Pints (Liquid)	Square Miles	640	Acres
Degrees (Fahrenheit)	(F-32)x5/9	Degrees (Celsius)	Liters	1.057	Quarts (Liquid)	Square Miles	27,878,400	Square Feet
Degrees (Kelvin)	K-273.15	Degrees (Celsius)	Meters	100	Centimeters	Square Yards	9	Square Feet
Fathoms	1.8288	Meters	Meters	3.281	Feet	Square Yards	1,296	Square Inches
Fathoms	6	Feet	Meters	39.37	Inches	Square Yards	.8361	Square Meters
Feet	30.48	Centimeters	Meters	.001	Kilometers	Tons	32,000	Ounces
Feet	12	Inches	Meters	6.214x10 ⁻⁴	Miles	Tons	2,000	Pounds
Feet	3.048x10 ⁻⁴	Kilometers	Meters	1,000	Millimeters	Tons	.89286	Tons (Long)
Feet	.3048	Meters	Meters	1.094	Yards	Tons	.90718	Tons (Metric)
Feet	1.894x10 ⁻⁴	Miles	Miles	5,280	Feet	Tons (Long)	1,016	Kilograms
Feet	304.8	Millimeters	Miles	63,360	Inches	Tons (Long)	2,240	Pounds
Feet	.3333	Yards	Miles	1.609	Kilometers	Tons (Long)	1.12	Tons
Furlongs	660	Feet	Miles	1,609	Meters	Tons (Metric)	1,000	Kilograms
Furlongs	.125	Miles	Miles	.8684	Miles (Nautical)	Tons (Metric)	2,205	Pounds
Furlongs	40	Rods	Miles	1,760	Yards	Yards	91.44	Centimeters
G's (Gravity)	32.174	Feet/sec/sec	Miles/Hour	88	Feet/Minute	Yards	3	Feet
G's (Gravity)	9.806650	Meters/sec/sec	Miles/Hour	1.467	Feet/Second	Yards	36	Inches
Gallons	3785	Cubic Centimeters	Miles/Hour	1.609	Kilometers/Hour	Yards	.9144	Meters
Gallons	.1337	Cubic Feet	Miles/Hour	.8684	Knots			

Inch Decimal	Inch Fraction	Millimeters	Inch Decimal	Inch Fraction	Millimeters	Inch Decimal	Inch Fraction	Millimeters	Inch Decimal	Inch Fraction	Millimeters
0.03937	2/51	1.00	0.50000	1/2	12.70	1.12500	1 1/8	28.58	.81102	1 73/90	46.00
0.06250	1/16	1.59	0.51181	22/43	13.00	1.14173	1 1/7	29.00	1.85039	1 17/20	47.00
0.07874	7/89	2.00	0.55118	27/49	14.00	1.18110	1 2/11	30.00	1.87500	1 7/8	47.63
0.09375	3/32	2.38	0.56250	9/16	14.29	1.22047	1 13/59	31.00	1.88976	1 8/9	48.00
0.11811	2/17	3.00	0.59055	13/22	15.00	1.25000	1 1/4	31.75	1.92913	1 13/14	49.00
0.12500	1/8	3.18	0.62500	5/8	15.88	1.25984	1 13/50	32.00	1.96850	1 31/32	50.00
0.15625	5/32	3.97	0.62992	17/27	16.00	1.29921	1 3/10	33.00	2.00000	2	50.80
0.15748	3/19	4.00	0.66929	2/3	17.00	1.33858	1 21/62	34.00	2.00787	2	51.00
0.18700	3/16	4.75	0.70866	17/24	18.00	1.37500	1 3/8	34.93	2.04724	2 1/21	52.00
0.19685	12/61	5.00	0.74803	3/4	19.00	1.37795	1 31/82	35.00	2.08661	2 2/23	53.00
0.21875	7/32	5.56	0.75000	3/4	19.05	1.41732	1 5/12	36.00	2.12500	2 1/8	53.98
0.23622	17/72	6.00	0.78740	63/80	20.00	1.45669	1 37/81	37.00	2.12598	2 1/8	54.00
0.25000	1/4	6.35	0.82677	43/52	21.00	1.49606	1 1/2	38.00	2.16535	2 1/6	55.00
0.27559	8/29	7.00	0.86614	13/15	22.00	1.50000	1 1/2	38.10	2.20472	2 9/44	56.00
0.28125	9/32	7.14	0.87500	7/8	22.23	1.53543	1 53/99	39.00	2.24409	2 10/41	57.00
0.31250	5/16	7.94	0.90551	48/53	23.00	1.57480	1 50/87	40.00	2.25000	2 1/4	57.15
0.31496	23/73	8.00	0.93750	15/16	23.81	1.61417	1 35/57	41.00	2.28347	2 19/67	58.00
0.35433	28/79	9.00	0.94488	17/18	24.00	1.62500	1 5/8	41.28	2.32284	2 31/96	59.00
0.37500	3/8	9.53	0.98425	63/64	25.00	1.65354	1 17/26	42.00	2.36221	2 25/69	60.00
0.39370	13/33	10.00	1.00000	1	25.40	1.69291	1 9/13	43.00	2.37500	2 3/8	60.33
0.43307	13/30	11.00	1.02362	1 2/85	26.00	1.73228	1 41/56	44.00	2.40158	2 2/5	61.00
0.43750	7/16	11.11	1.06299	1 1/16	27.00	.75000	1 3/4	44.45	2.44095	2 15/34	62.00
0.47244	43/91	12.00	1.10236	1 9/88	28.00	1.77165	1 71/92	45.00	2.48032	2 12/25	63.00