

Kumho Tire Canada

Technical Service Bulletin

ECSTA STX 305/30R26 110H

The continued expansion of the plus sizing trend for Light Trucks, and especially Sport Utility Vehicles has created demand for larger and larger rim diameter tire sizes. With sizes available in 20, 22, 23, and 24 inch rim diameters, Kumho is a leader in large rim diameter sizes for the light truck industry. The latest entry to meet consumer demand is the ECSTA STX 305/30R26 110H from Kumho. Kumho is the first tire manufacturer to offer a 26 inch rim diameter size for the replacement tire market.

Plus size changeovers require that the new tire and wheel being placed on the vehicle must have sufficient load carrying capacity to support the load of the vehicle. The new 305/30R26 110H ECSTA STX has a maximum load capacity of 2,337 pounds at 42 psi of air pressure, with a maximum inflation pressure of 50 psi allowed with no increase in load carrying capacity. When mounting in a light truck application the maximum load capacity **MUST BE REDUCED BY** dividing the maximum load capacity by 1.1. The maximum load capacity of the 305/30R26 110H on a light truck vehicle is 2,124 pound at 42 psi.

It is extremely important that the 305/30R26 110H ECSTA STX not be mounted on vehicles where the load exceeds the maximum capacity of the tire. Under no circumstances may the 305/30R26 110H be mounted in an application where the maximum load exceeds 2124 lbs per tire.

To determine the maximum load capacity of a light truck vehicle the following procedure should be followed:

1. Determine the gross axle weight rating of the vehicle (GAWR)
This information can be found on the vehicle's certification label found in the glove box or on the end of the drivers door.
2. Divide the GAWR by 2
This gives you the maximum load per tire.
3. Determine the maximum load as marked on the sidewall of the tire.
For Passenger tires used on a light truck vehicle, the maximum load listed on the sidewall must be reduced by dividing by 1.1.
4. Compare the load calculated in step #3 to the load calculated in step #2.
5. The tire load calculated in step #3 must exceed the axle load calculated in Step #2. If the tire load capacity in step #3 is lower than the axle load in step #2 the tire cannot be used on that vehicle.

Using the 2003 Cadillac Escalade as an example, the process is as follows:

1. GAWR = 4000lbs (Heaviest Axle)
2. $4000\text{lbs}/2 = 2000\text{lb}$ tire load
3. Rated load for the 305/30R26 110H is 2,337 lbs
 $2,337/1.1 = 2,124$ lbs
4. The 2,124 lb tire load exceeds the 2000lb load of the vehicle

Therefore the 305/30R26 110H can be applied to the 2003 Cadillac Escalade.

Recommendations concerning fitment and recommended air pressure can be obtained by contacting the Kumho Technical Service extension at 800-445-8646.

Load and Inflation Chart

110 Load Index

Bar	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
KG	625	660	690	725	755	785	820	850	880	910	940	970	1000	1030	1060
PSI	32	34	35	36	38	39	41	42	44	45	47	48	50	50	50
LBS	1378	1455	1521	1599	1665	1731	1808	1874	1940	2007	2073	2139	2205	2271	2337
Reduced for Light Truck Fitments															
LBS	1253	1323	1383	1453	1513	1574	1644	1704	1764	1824	1884	1944	2005	2065	2124

Maximum inflation pressure is 50 PSI, however the maximum load does not exceed 2337 LBS per tire (9348 lbs vehicle).