CRUSHLOCK™
World's Most Vibration Resistant Nut

CrushLock Cure for Nut Dilation

From the skyscrapers making up our largest cities, to the trains and cars we travel millions of combined miles in. Millions of lives rely on the strength and vibration resistance of nut fasteners every single day, even without knowing it. Ranging in several grades, designs, and purposes; they have all run into the problem of “nut dilation”.

Nut Dilation results from the maximum torqueing of the nut during installation. Under the high stress load, the wedging action of the threads results in an increase of the minor diameter of the nut, essentially reducing the effective shear areas of both the external and internal threads. This leads over time to the loosening and eventually failure of the nut and bolt, expedited by increased vibration.

CrushLocks newly patented vibration resistant nut has been found to eliminate the forces causing nut dilation. The design of the nut converts the traditional friction forces from the wedging action into permanent internal compression and redirecting the lateral forces upwards. Insuring that all Crushlock Nut threads are intact with minimal thread stress, and maximum thread strength.

Junker and several other tests have shown the Crushlock Nut performing far above the competition, even exceeding all the DIN 25201 vibration standards by over 300%. To handle such great forces the Crushlock Nut is designed to be permanent.

Keeping its pressure even after being cut into four, removing a Crushlock Nut is essentially destroying it. This is the strength and vibration resistance needed to maintain the continued safety of those millions of lives.

Written By:

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