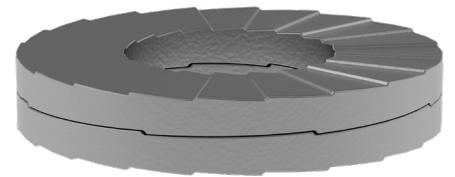


## TEC-Series® Washer - Data Sheet

### Introduction

TEC Series® Locking Washers are the style of locking washers recommended for applications where fasteners and washers may need to be removed and/or reused.

TEC Series® washers are supplied as glued pairs; each individual washer of the combined pair has cams on one side and radial teeth on the other side. The cam sides are mated together with a mild adhesive leaving the radial teeth on both outer surfaces. During installation, the radial teeth become seated to the bolt or nut and the base material.



When the joint is exposed to heavy load or vibration, the bolt or nut will attempt to loosen however as the washers radial teeth are seated into both the base material and the bolt/nut, any loosening movement is forced into the cams between the washer pair.

As the cam angles are greater than the angle of the thread pitch, any movement would need the cams to rise against each other so in effect increasing the tensile load in the bolting assembly; one action creates an equal and opposite reaction so no movement physically happens and the bolt/nut cannot work loose.

TEC Series® washers are thoroughly tested in several stages of production to ensure a high level of quality. Each TEC Series® washer is laser etched with a production lot number, part size, and coating code to enable full traceability and easy identification.

### Installation & Removal

To install the TEC Series® Washer, place the preassembled pair between the nut or bolt and the joint material. Install TEC Series® washers using standard tools according to TEC Series Torque Guidelines. Retightening is not needed.

The use of lubricants is highly recommended when installing TEC Series® washers; a high quality lubricant designed to prevent seizing will reduce friction during installation and improve the consistency of clamp load in joints.

Removing TEC Series® washers requires no special tools or procedure. Simply untighten the joint in the normal method and check the washer to ensure cam faces disengage.

While TEC Series® washers are usually reusable, washers should always be inspected for deformation or excessive wear before reuse. If washers appear deformed or heavily worn, discard and use a new pair.

## TEC-Series® Washer - Data Sheet

### Products

TEC Series® washers are currently available in the following sizes and dimensions.

Alloy steel washers M40 to M36

Large diameter alloy steel washers M4 to M36

316 stainless steel washers M5 to M36

Large diameter 316 stainless steel washers M4 to M30

