GLOSSARY OF O-RING TERMS AND ABREVIATIONS

AF
Air Force

AMS
Aerospace Material Specification

AN
Airforce-Navy

AS-568A
Aerospace Standard Uniform Dash Numbering System for O-Rings.

ASTM
American Society for Testing and Materials.

Clearance, Diametral
The difference in diameters of two surfaces to be sealed.

Cross-Sectional Diameter (C/S)
One half the difference between the ID and OD of an O-Ring.

Dynamic Seal
An application where an O-Ring is to seal two parts which are in motion.

Elongation
Percent of stretch before breaking.

Extrusion
The extension, under pressure, of a portion of an O-Ring into the clearance between mating parts.

Face Seal
An application where an O-Ring seals in a plane perpendicular to its axis.

Flash
Excess rubber left around an O-Ring at mold parting lines.

Gland
Seal assembly, including O-Ring, groove and contacting surfaces.

Groove
The recess into which an O-Ring is fitted.

Hardness
Property usually measured with a Shore A Durometer. A reading of 40° is soft, 90° is hard.

ID
The inside diameter of an O-Ring.

MIL
Military

Modulus
Stress at 100% elongation.

MS
Military Standard

OD
The outside diameter of an O-Ring.

SAE
Society of Automotive Engineers

Seal
An O-Ring that prevents fluid flow.

Set, Compression
Permanent distortion of an O-Ring after compression.

Squeeze
Cross-sectional compression on an O-Ring.

Static Seal
An O-Ring designed to function between parts having no relative motion. (A Gasket)

Tensile
The pulling strength before breaking, measured in pounds per square inch.

W
The cross-sectional diameter of an O-Ring.