



Durlon[®] (CNA) Enhanced Anti-Stick Formulation



Service | Quality | Performance

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Many gasket users have encountered problems with various compositions associated with flange adhesion for years.

Apart from the separation of flanges, surface imperfections can result from careless gasket removal. After time, under load at elevated temperatures and pressures, there is a tendency for gasket materials to become embedded in the flange on opening, or sometimes disintegrate and pieces stick to both flange mating surfaces resulting in a problem when removing the adhering gasket



material in a safe and timely manner and without damaging the flanges. Many times, wire brushing or wire wheels is a common practice, but if not done properly can lead to damaged process equipment or system contamination.

To overcome this problem, anti-stick technology has been incorporated into the manufacturing process of the compressed non-asbestos(CNA) DURLON® products. This anti-stick technology allows for improved separation from flange surfaces during removal, saving time and energy, and all without compromising the performance of the gasket.

This new technology allows DURLON®(CNA) to be the best in the industry; gasket and sheet materials have passed the MIL-G-24696 Navy Adhesion Test (366°F/48 hrs).

The following line of compressed non-asbestos gaskets shown here, have been upgraded with the new anti-stick technology:

- ✓ Durlon® 5000 (mineral/NBR)
- ✓ Durlon® 7900/7925/7950 (aramid/NBR)
- ✓ Durlon® 8300 (carbon/NBR)
- ✓ Durlon® 8400 (phenolic/NBR)
- ✓ Durlon® 8500 (aramid-inorganic/NBR)
- ✓ Durlon® 8600 (aramid-inorganic/SBR)
- ✓ Durlon® 8700 (aramid-inorganic/CR)
- ✓ Durlon® 8900 (aramid-graphite/NBR)

Military Adhesion Mil-G-24696

Adhesion Comparison between gaskets produced without anti-stick and with anti-stick.

Test Conditions: 48 hours at 366°F (186°C)



Without Anti-Stick Technology

Gasket cannot be removed in one piece.
Part of the gasket body remains on the surface of the flange.
Mil-G-24696 Rate is: 4-5 (see graph below).



With Anti-Stick Technology

Gasket can be removed in one piece. Little of the face from the gasket remains on the surface of the flange.
Mil-G-24696 Rate is: 1-2 (see graph below).

MIL-G-24696 – Navy Adhesion

Sample size: 1.25" X 2.0" X 1/16"

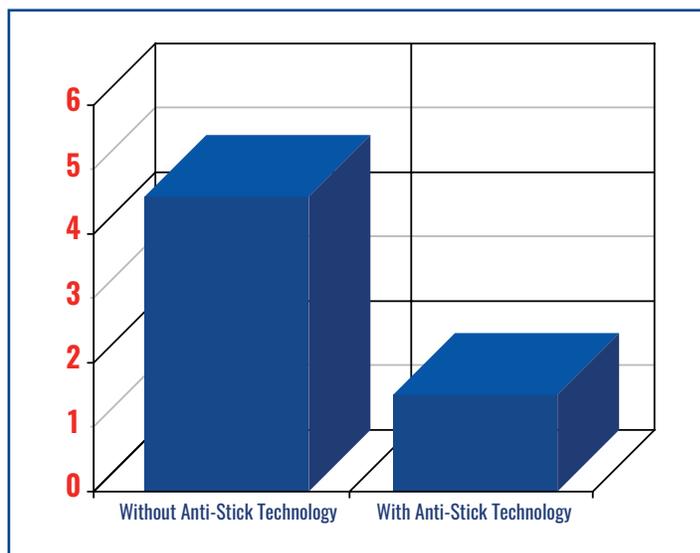
Platens: Carbon steel and Stainless Steel

Conditioned samples are installed between two platens and torqued down to 30 ft-lb.

The platens are placed in an oven for 48 hours at 185°C (366°F).

Cold platens are separated and rated according to the following:

- 1** Gasket can be removed cleanly with virtually no residual material remaining.
- 2** Only a small amount of face material remains when gasket is separated from platen.
- 3** Can be removed in one piece but some body material remains on platen.
- 4** Can be removed in one piece but a considerable amount of body material remains.
- 5** Cannot be removed in one piece and delaminates upon removal.



Do not hesitate to reach out to Triangle Fluid Controls Ltd.® for additional information on the Durlon® line of compressed non-asbestos gasket materials. For sales: info@trianglefluid.com and for technical assistance: tech@trianglefluid.com or call us (Canada & US Toll Free): 1(855) 537-1133 or (International): +1(613) 968-1100.