

HIGH PERFORMANCE FLUOROELASTOMER SEALS

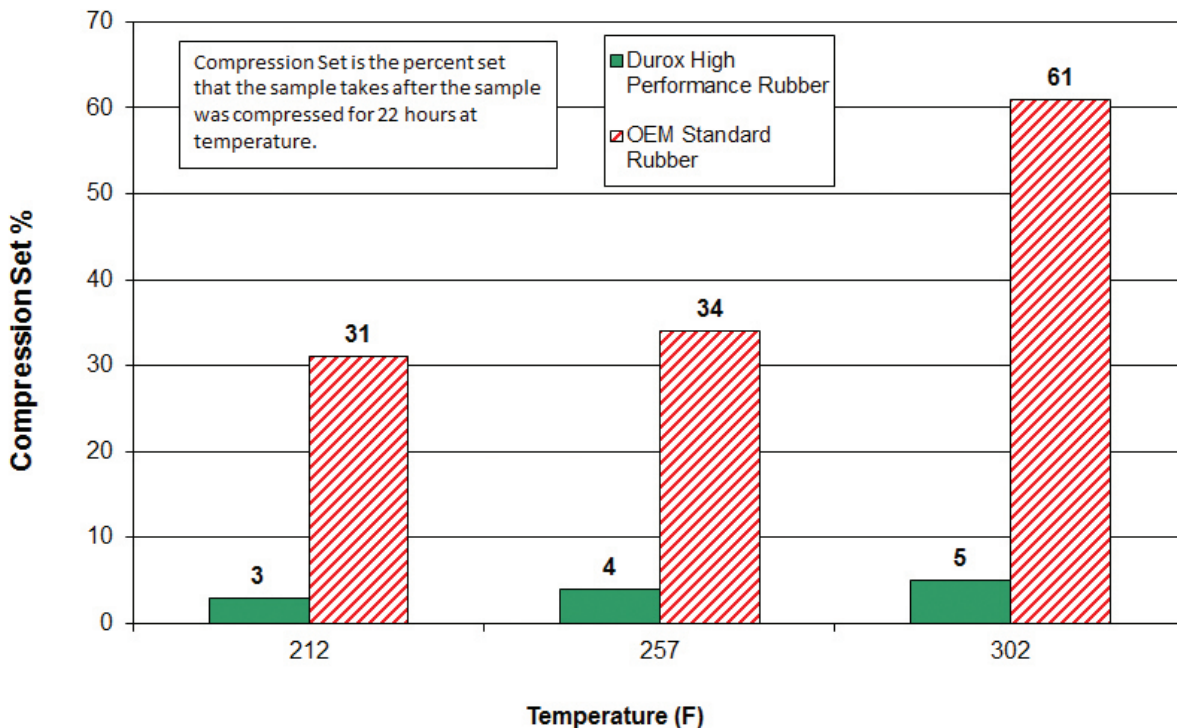
Traditionally, most seals in a locomotive engine are made of Nitrile rubber. While a new Nitrile seal is soft and flexible at temperatures of around 150°F to 180°F, the elastomer that makes the seal flexible starts to bake out of the product. These temperatures are produced by the locomotive engine in normal operation and the result is a hard, cracked rubber product that no longer effectively seals.

Durox has replaced all these traditional seals with High Performance Fluoroelastomer Seals. Fluoroelastomer is a rubber compound that remains soft and flexible at temperatures up to 480°F, a temperature range that the locomotive engine does not produce in normal operation.

Durox green Fluoroelastomer Seals are made in various custom formulations that are designed for specific end-use applications including formulations for pipe coupling gaskets and O-rings.

- The Fluoroelastomer formulation for the “M” type seal is designed with a very high modulus so that the part will resist creep and deformation once it is installed.
- The Fluoroelastomer formulation for the “V” style seal application is designed to have a high resistance to tearing and flex cracking.
- These special formulations are optimized so that the product meets the requirements of the specific application in addition to having outstanding performance in high temperatures and resistance to fuel, oil, water and additives used in the maintenance of locomotive engines.

**Durox - Seal Test
Compression Set Test @ 22 Hours**



PIPE COUPLING GASKETS

“M” Style Seals



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“M” Style						
8479542HT	DE1072	0.50"	0.88"	H	Fluoroelastomer	1/2" Seal, Hi-Temp
8479542	DE10137	0.50"	0.88"	S	Nitrile	1/2" Seal
8479543HT	DE10155	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
16391378HT	DE4429	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
8479543	DE10070	0.75"	1.00"	S	Nitrile	3/4" Seal
8479544HT	DE10156	1.00"	1.25"	H	Fluoroelastomer	1" Seal, Hi-Temp
8479544HT	DE10142	1.00"	1.25"	S	Nitrile	1" Seal
8479598HT	DE10183	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
41A242065P2HT	DE50084	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
8479598	DE10376	1.25"	1.63"	S	Nitrile	1 1/4" Seal
41A242065P2	DE50094	1.25"	1.63"	S	Nitrile	1 1/4" Seal
8479599HT	DE10185	1.50"	1.90"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp
8479599	DE10144	1.50"	1.90"	S	Nitrile	1 1/2" Seal
8479600HT	DE10184	2.00"	2.38"	H	Fluoroelastomer	2" Seal, Hi-Temp
8479600	DE10143	2.00"	2.38"	S	Nitrile	2" Seal
41A242065P3HT	DE50080	2.00"	2.38"	H	Fluoroelastomer	2" Seal, Hi-Temp
41A242065P3	DE50019	2.00"	2.38"	S	Nitrile	2" Seal
8479601HT	DE10163	2.50"	3.00"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
8479601	DE2006	2.50"	3.00"	S	Nitrile	2 1/2" Seal
8479602HT	DE10157	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
8479602	DE2007	3.00"	3.50"	S	Nitrile	3" Seal
41A242065P4HT	DE50081	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
41A242065P4	DE50021	3.00"	3.50"	S	Nitrile	3" Seal
8479603HT	DE10158	3.50"	4.00"	H	Fluoroelastomer	3 1/2" Seal, Hi-Temp
8479603	DE10028	3.50"	4.00"	S	Nitrile	3 1/2" Seal
41A242065P1HT	DE50079	3.50"	4.00"	H	Fluoroelastomer	3 1/2" Seal, Hi-Temp
41A242065P1	DE50022	3.50"	4.00"	S	Nitrile	3 1/2" Seal
8479604HT	DE10159	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
8479604	DE2008	4.00"	4.50"	S	Nitrile	4" Seal
41A242065P5HT	DE50082	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
41A242065P5	DE50018	4.00"	4.50"	S	Nitrile	4" Seal
40138075	DE11544	5.00"	5.50"	S	Fluoroelastomer	5" Seal, Hi-Temp
8406231HT	DE11585	6.00"	6.50"	H	Fluoroelastomer	6" Seal, Hi-Temp
8406231	DE11603	6.00"	6.50"	S	Nitrile	6" Seal
41A242065P6HT	DE51202	6.00"	6.50"	H	Fluoroelastomer	6" Seal, Hi-Temp
41A242065P6	DE51201	6.00"	6.50"	S	Nitrile	6" Seal

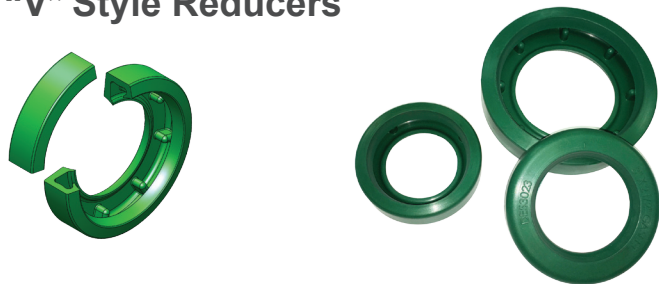
PIPE COUPLING GASKETS

“V” Style Seals



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“V” Style 75						
41C624988P105HT	DE53020	2.00"	2.00"	H	Fluoroelastomer	2" Seal, Hi-Temp
41C624988P106HT	DE32080	2.50"	2.50"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
41C624988P107HT	DE52728	3.00"	3.00"	H	Fluoroelastomer	3" Seal, Hi-Temp
41C624988P8	DE50133	3.50"	3.50"	S	Fluoroelastomer	3 1/2" Seal, Hi-Temp
41C624988P109	DE50134	4.00"	4.00"	S	EPDM	4" Seal
41C624988P109HT	DE50137	4.00"	4.00"	H	Fluoroelastomer	4" Seal, Hi-Temp
41C624988P110	DE50135	5.00"	5.00"	S	EPDM	5" Seal
41C624988P110HT	DE50138	5.00"	5.00"	H	Fluoroelastomer	5" Seal, Hi-Temp
41C624988P111	DE50136	6.00"	6.00"	S	EPDM	6" Seal
41C624988P111HT	DE50181	6.00"	6.00"	H	Fluoroelastomer	6" Seal, Hi-Temp
41C624988P212HT	DE33088	8.00"	8.00"	H	Fluoroelastomer	8" Seal, Hi-Temp

“V” Style Reducers



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“V” Style Reducers						
84B107007P1HT	DE53024	2.50" - 2.00"	2.50" - 2.00"	H	Fluoroelastomer	2 1/2" - 2" Seal, Hi-Temp
41B548215APP1HT	DE53023	3.00" - 2.50"	3.00" - 2.50"	H	Fluoroelastomer	3" - 2 1/2" Seal, Hi-Temp
41B548215APP2HT	DE53021	4.00" - 3.00"	4.00" - 3.00"	H	Fluoroelastomer	4" - 3" Seal, Hi-Temp

PIPE COUPLING GASKETS

“D” Style Seals



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“D” Style 38						
499A912AEP3	DE5563	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
115X2603	DE5563	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
499A912AEP4	DE50072	1.00"	1.31"	H	Fluoroelastomer	1" Seal, Hi-Temp
41A213752P4	DE50072	1.00"	1.31"	H	Fluoroelastomer	1" Seal, Hi-Temp
115X2604	DE50072	1.00"	1.31"	H	Fluoroelastomer	1" Seal, Hi-Temp
499A912ADP3	DE5455	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
499A912AEP5	DE5455	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
115X2462	DE5455	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
115X2605-1	DE5455	1.25"	1.63"	H	Fluoroelastomer	1 1/4" Seal, Hi-Temp
41A213752P5	DE5454	1.25"	1.63"	S	Nitrile	1 1/4" Seal
115X2605-1	DE50045	1.25"	1.63"	S	EPDM	1 1/4" Seal
499A912AEP6	DE5564	1.50"	2.00"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp
115X2606	DE5564	1.50"	2.00"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp
41A213752P6	DE5564	1.50"	2.00"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp
499A912AEP7	DE5439	2.00"	2.44"	H	Fluoroelastomer	2" Seal, Hi-Temp
115X2607	DE5439	2.00"	2.44"	H	Fluoroelastomer	2" Seal, Hi-Temp
115X2607-1	DE5439	2.00"	2.44"	H	Fluoroelastomer	2" Seal, Hi-Temp
41A221977P1	DE5439	2.00"	2.44"	H	Fluoroelastomer	2" Seal, Hi-Temp
115X2607-1	DE51200	2.00"	2.44"	S	EPDM	2" Seal
499A912AEP8	DE5311	2.50"	3.00"	S	Nitrile	2 1/2" Seal
16391328	DE4368	2.50"	3.00"	S	Nitrile	2 1/2" Seal
499A912AEP8	DE50073	2.50"	3.00"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
115X2608	DE50073	2.50"	3.00"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
8390925	DE11296	2.50"	3.00"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
16391328	DE4408	2.50"	3.00"	H	Fluoroelastomer	2 1/2" Seal, Hi-Temp
8340702	DE10090	3.00"	3.50"	S	Nitrile	3" Seal
16391336	DE4367	3.00"	3.50"	S	Nitrile	3" Seal
499A912AEP9	DE5440	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
115X2560	DE5440	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
115X2609	DE5440	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
41A213752P9	DE5440	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
8340702	DE11297	3.00"	3.50"	H	Fluoroelastomer	3" Seal, Hi-Temp
16391336	DE4409	3.00"	3.50"	B	Fluoroelastomer	3" Seal, Hi-Temp

PIPE COUPLING GASKETS

“D” Style Seals (continued)



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“D” Style 38 (continued)						
41A213752P9	DE5501	3.00"	3.50"	S	Nitrile	3" Seal
3038-0025-001	DE50049	3.00"	3.50"	S	EPDM	3" Seal
115X2560	DE50049	3.00"	3.50"	S	EPDM	3" Seal
3038-0032-001	DE5566	3.50"	4.00"	H	Fluoroelastomer	3 1/2" Seal, Hi-Temp
499A912AEP10	DE5566	3.50"	4.00"	H	Fluoroelastomer	3 1/2" Seal, Hi-Temp
115X2610	DE5566	3.50"	4.00"	H	Fluoroelastomer	3 1/2" Seal, Hi-Temp
499A912AEP11	DE5309	4.00"	4.50"	S	Nitrile	4" Seal
115X2611	DE5309	4.00"	4.50"	S	Nitrile	4" Seal
8372513	DE10091	4.00"	4.50"	S	Nitrile	4" Seal
3038-0035-001	DE5565	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
499A912AEP11	DE5565	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
115X2611	DE5565	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
41A213752P11	DE5565	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
8372513	DE11298	4.00"	4.50"	H	Fluoroelastomer	4" Seal, Hi-Temp
3038-0047-001	DE5464	5.00"	5.50"	H	Fluoroelastomer	5" Seal, Hi-Temp
499A912AEP12	DE5464	5.00"	5.50"	H	Fluoroelastomer	5" Seal, Hi-Temp
115X2561	DE5464	5.00"	5.50"	H	Fluoroelastomer	5" Seal, Hi-Temp
115X2612	DE5464	5.00"	5.50"	H	Fluoroelastomer	5" Seal, Hi-Temp
16391355	DE4417	5.00"	5.50"	H	Fluoroelastomer	5" Seal, Hi-Temp
3038-0047-001	DE5453	5.00"	5.50"	S	Nitrile	5" Seal
115X2612	DE5453	5.00"	5.50"	S	Nitrile	5" Seal
41A213752P12	DE5453	5.00"	5.50"	S	Nitrile	5" Seal
3038-0056-001	DE5567	6.00"	6.50"	H	Fluoroelastomer	6" Seal, Hi-Temp
499A912AEP13	DE5567	6.00"	6.50"	H	Fluoroelastomer	6" Seal, Hi-Temp
115X2613	DE5567	6.00"	6.50"	H	Fluoroelastomer	6" Seal, Hi-Temp
499A912AEP15	DE50074	8.00"	8.50"	H	Fluoroelastomer	8" Seal, Hi-Temp

PIPE COUPLING GASKETS

“D” Style Seals (continued)



OEM #	Durox #	Pipe ID	Seal ID	Type	Material	Description
“D” Style 65						
3065-0003-001	DE50077	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
8260913	DE10083	0.75"	1.00"	S	Nitrile	3/4" Seal
8260913HT	DE11300	0.75"	1.00"	H	Fluoroelastomer	3/4" Seal, Hi-Temp
499A912AFP4	DE5305	1.00"	1.31"	S	Nitrile	1" Seal
8260914	DE11302	1.00"	1.31"	S	Nitrile	1" Seal
16391340-2	DE4399	1.00"	1.31"	S	Nitrile	1" Seal
499A912AFP4HT	DE51145	1.00"	1.31"	H	Fluoroelastomer	1" Seal, Hi-Temp
8260914HT	DE11605	1.00"	1.31"	H	Fluoroelastomer	1" Seal, Hi-Temp
499A912AFP5	DE5312	1.25"	1.63"	S	Nitrile	1 1/4" Seal
16391341-2	DE4406	1.25"	1.63"	S	Nitrile	1 1/4" Seal
8260915	DE10085	1.25"	1.63"	S	Nitrile	1 1/2" Seal
16391317-2	DE4398	1.50"	1.88"	S	Nitrile	1 1/2" Seal
499A912AFP6HT	DE50076	1.50"	1.88"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp
8285116	DE11303	1.50"	1.88"	H	Nitrile	1 1/2" Seal
9544432	DE11303	1.50"	1.88"	H	Fluoroelastomer	1 1/2" Seal, Hi-Temp