



Quality Industrial Seal Engineering

Seal Profiles & Materials Overview

Specialising in manufacturing and distributing
of hydraulic, pneumatic and rotary seals.



Materials Overview

Material		HFA Fluids	Food Grade	Operating Temp. (°C)		Hardness
HPU	hydrolysis resistant polyurethane	✓	✓	-30	+110	94 shore A
HPU-SG	hydrolysis resistant solid grade polyurethane	✓		-20	+105	57 shore D
HPU-FDA	hydrolysis resistant polyurethane		✓	-40	+100	95 shore A
HPU-LT	hydrolysis resistant low temperature polyurethane			-55	+110	95 shore A
HPU-SL	hydrolysis resistant self lubricated polyurethane			-30	+105	94 shore A
NBR-85	nitrite butadiene rubber	✓		-35	+120	85 shore A
NBR-90	nitrite butadiene rubber	✓		-35	+120	90 shore A
H-NBR 83	hydrogenated acrylnitrile-butadiene rubber			-20	+150	83 shore A
H-NBR-95	hydrogenated acrylnitrile-butadiene rubber			-20	+150	95 shore A
H-NBR-FDA	hydrogenated acrylnitrile-butadiene rubber		✓	-20	+150	82 shore A
EPDM-FDA	ethylene propylene diene rubber (white)		✓	-40	+150	87 shore A
EPDM-KTW	ethylene propylene diene rubber (black)		✓	-20	+150	88 shore A
MVQ-FDA	methyl vinyl silicone rubber		✓	-40	+220	84 shore A
FPM-FDA	fluor rubber viton (brown)		✓	-20	+220	85 shore A
AFLAS	fluor rubber			-10	+220	85 shore A
PTFE-1	virgin teflon	✓		-200	+260	51 shore D
PTFE-2	teflon + 15% glass fibre + 5% MoS02			-200	+260	57 shore D
PTFE-3	teflon + 40% bronze			-200	+260	58 shore D
PTFE-4	teflon + 25% carbon			-200	+260	66 shore D
PTFE-5	teflon + 25% glass			-200	+260	57 shore D
PTFE-6	teflon + 15% graphite			-200	+260	61 shore D
POM	acetal	✓		-50	+100	81 shore D
PA6G	polyamide			-40	+110	85 shore D
PEEK	polyaryletherketone			-60	+250	86 shore D

In addition to the profiles shown, SealPlus is able to design and manufacture custom-made seals specifically tailored to your needs. Using over 20 different materials from qualified European suppliers, most profiles can be manufactured to sizes from 4mm to 700mm in-house. Larger sizes (up to 2000mm) can be produced with a longer lead time.

SealPlus offers materials recommended for use in:

- HFA and HFB fluids
- Pure and Sea Water
- Bio-degradable fluids like synthetic esters and vegetable oils.

We also offer food-grade materials conforming to Food and Drug Administration (FDA) standards, as well as self-lubricated, modified polyurethane - specifically designed for the most demanding applications within water hydraulics or non-lubricated pneumatics.

In addition to machined seals, SealPlus also offers a large range of standard seals including shaft, piston and rotary seals; o-rings; and back-ups.

For further information, or a free quote, please contact our office on (07) 4952 4959.

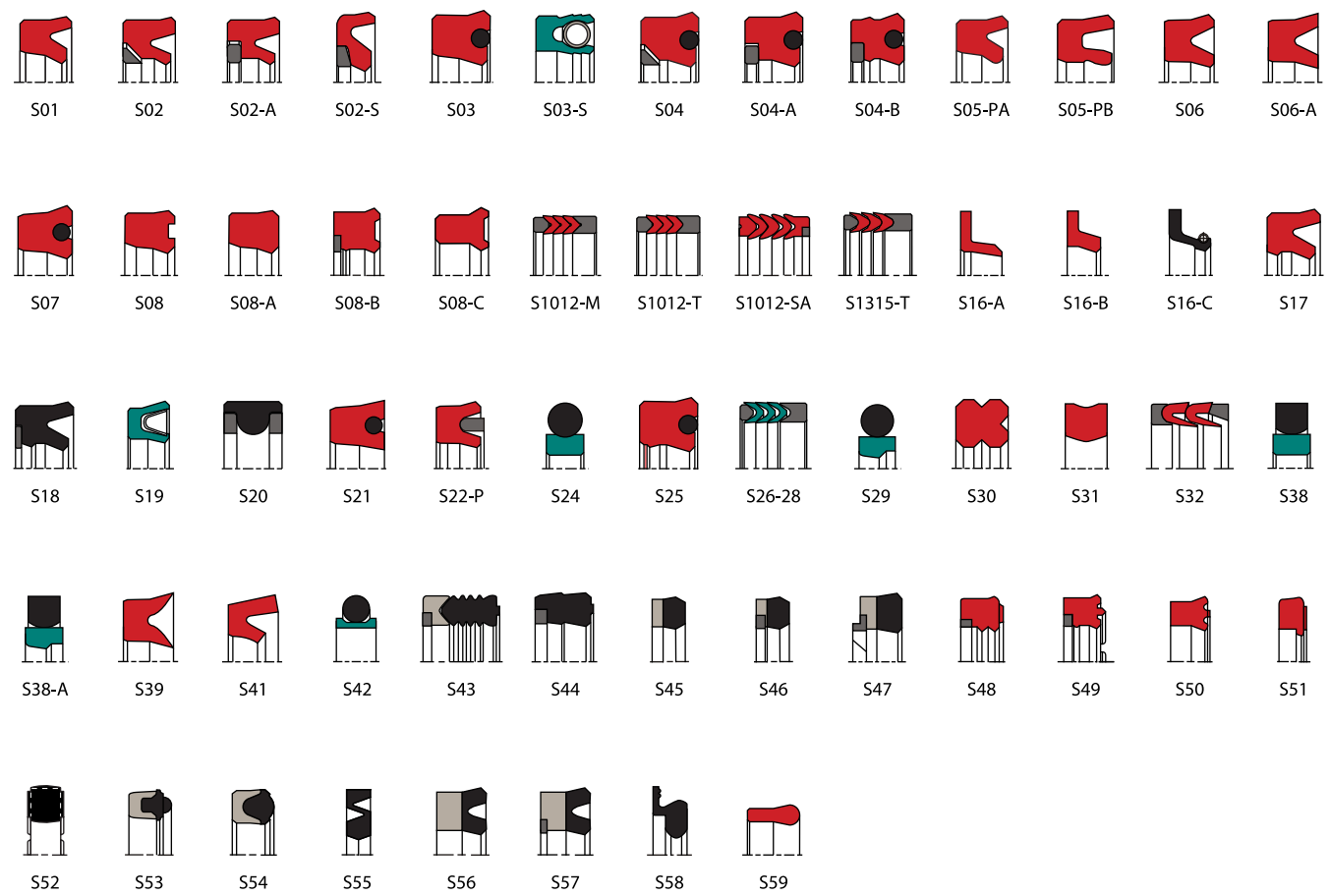
Seal Profiles Overview

Piston Seals

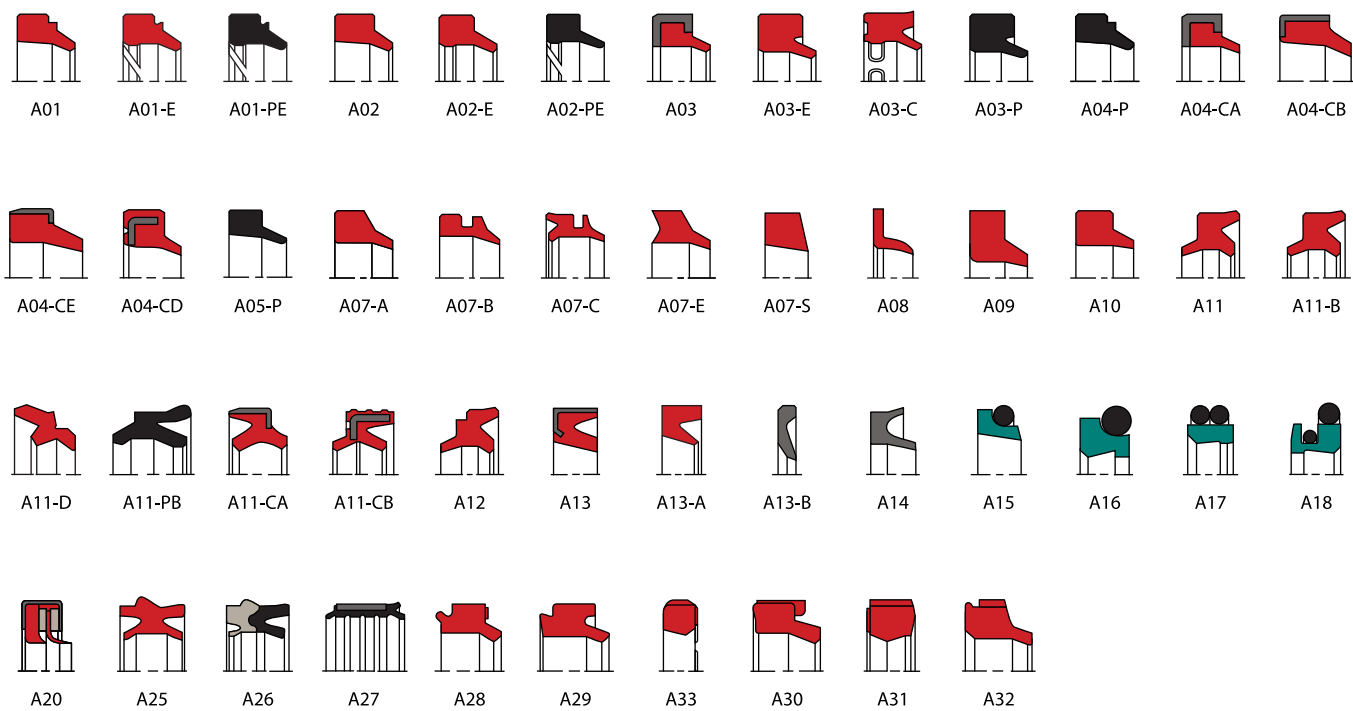


CIR

Rod Seals



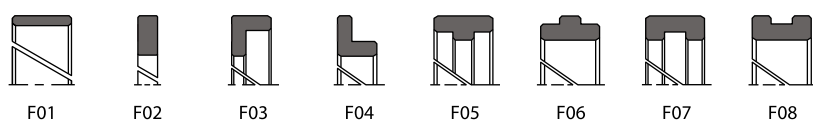
Wipers



Rotary Seals



Guide Rings



Backup Rings

