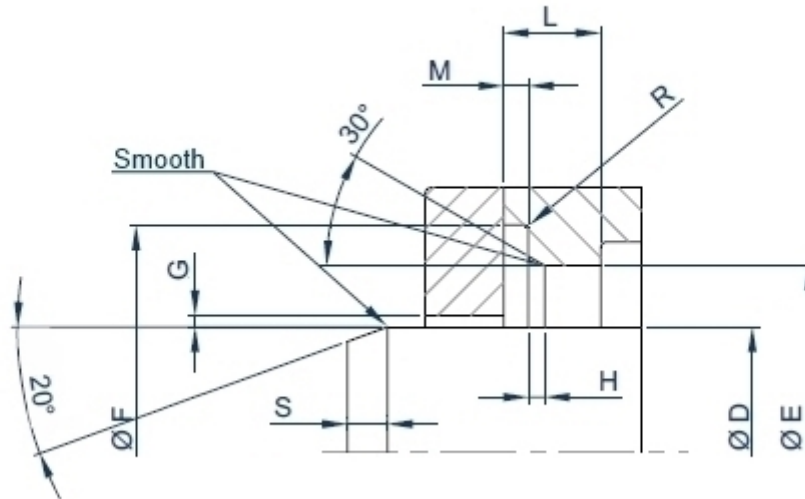


Enerseal® Spring Energized Seals | Energized Rotary Seals U



Spring Energized Rotary Seals Enerseal®, custom and standard dimensions available. Jacket in PTFE compound, PEEK, UHMW-PE. Jackets and electro-welded springs are designed and realized within the company, so that HD has the complete control of the production process. Spring are available in Aisi 301, Elgiloy, Hastelloy and **NACE approved Inconel X750**.

Optional filling with EU-FDA approved Silicone with MOCA certificate.

[Spring Energized Seals Homepage](#)



SEAT

| housing class | D dimensional range | E groove diameter | F flange groove diameter | L groove width | M flange groove width | H chamfer | S chamfer | R max | G max. radial gap |
|---------------|-------------------------------|-----------------------------|------------------------------------|--------------------------|---------------------------------|---------------------|---------------------|-----------------|-----------------------------|
| | f7 | H9 | H12 | H12 | +0/-0.1 | | | | |
| RUL | 5 - 240 | D+4.52 | D + 10.4 | 3.6 | 0.65 | 0.8 | 2.5 | 0.3 | 0.05 |
| RUH | 25 - 400 | D+6.15 | D + 13.8 | 4.8 | 0.75 | 1.35 | 3.0 | 0.4 | 0.08 |
| RUN | 45 - 650 | D+9.45 | D + 20.2 | 7.1 | 1 | 1.4 | 5.5 | 0.5 | 0.10 |
| RUM | 80 - 1100 | D+12.11 | D + 26.4 | 9.5 | 1.25 | 2.3 | 8.5 | 0.5 | 0.12 |

Coding example

housing class RUN
 profile code 118
 rod 30
 materials: jacket Neuflon 020 spring Aisi 301

Roto-Enerseal RUN 118 030 N-020 301

MATERIALS

Click compound's code to download the .PDF data sheet. Login required.

PTFE COMPOUNDS

| HD Slippers code | Composition | Approvals | ΔT °C | Description |
|-----------------------|-----------------------------------|-----------------------------|-----------|--|
| N-009 | Ptfe-oxides | | -268 +260 | All pourpose on soft surfaces |
| N-032 | Ptfe-carbon | | -268 +260 | High wear resistance, pneumatic and hydraulic seals |
| N-197 | Ptfe-carbographite | NORSOK | -268 +260 | High wear resistance, hydraulic and pneumatic seals |
| N-043 | Ptfe-graphite | FDA | -268 +260 | High wear resistance, low friction coefficient. |
| N-103 | Ptfe-carbon fibre | FDA | -268 +260 | High wear resistance, low friction coefficient, hard surfaces. |
| N-033 | Ptfe-glass fibre-MoS ₂ | | -268 +260 | Of general use, in lubricated applications, rotary seals |
| N-060 | Ptfe-glass fibre | FDA | -268 +260 | All pourpose on hard surfaces |
| N-067 | Ptfe-glass fibre | FDA NORSOK | -268 +260 | High wear and creep resistance |
| N-102 | Ptfe-Liquid crystal polymer | FDA - EU | -268 +260 | Food & Pharma on soft surfaces |
| N-088 | Ptfe-poliimide | | -268 +260 | High wear resistance. Soft surfaces |
| N-074 | PEHMW | FDA | -140 +80 | High wear and extrusion resistance |

CHOOSING Neuflon-ptfe compound ACCORDING WITH FLUID AND SURFACE

| FLUIDS | SURFACES | | | |
|--|--|---|--------------------------------|--|
| | Steel HEC>=30-45 Temp. Mart. Inox Steel Cast Iron HRB<=200 Steel HRC>=45 Cast Iron HRB>200 | Galvanic or chemical surfacing HV>=700 Chromium Bronze | Treated Aluminium | Aust. Inox Steel Glass |
| | NEUFLON-ptfe compounds (standard in bold) | | | |
| Hydraulic oil Transmission oil Fire resistant syntetic hydraulic oil | N-031 N-032 N-060 N-077 P95-G114 | N-031 N-032 N-060 N-077 P95-G114 | N-032 N-074 P95-G114 | N-009 N-032 N-074 P95-G114 |
| Water and oil/water emulsions | N-032 N-060 N-077 N-074 | N-032 N-060 N-077 N-074 | N-032 N-074 | N-009 N-032 N-074 |
| Drugs and food | N-102 N-043 N-060 N-074 N-088 P95-G114 | N-009 N-074 P95-G114 | N-009 N-074 P95-G114 | N-009 N-074 P95-G114 |
| Air | N-032 N-031 N-043 N-074 P95-G114 | N-032 N-043 P95-G114 | N-032 N-074 P95-G114 | N-032 N-009 N-043 N-074 P95-G114 |
| Steam | N-032 N-043 | N-032 | | N-032 N-009 N-043 |
| Acids and Bases | N-032 N-074 | N-032 N-043 N-074 | | N-009 N-032 N-043 N-074 |



FINISHES

| SURFACE FINISH ACCORDING WITH FLUID | | |
|---|---|---|
| application | max Ra μm dynamic surface | max Ra μm static surface |
| CRYOGENICS | 0,1 | 0,2 |
| FREON HELIUM HYDROGEN | 0,2 | 0,3 |
| AIR NITROGEN ARGON METHANE FUELS | 0.2 | 0.4 |
| WATER OIL | 0.3 - 04 | 0.6 |
| ROTARY SEALS | | |
| Shaft surface Ra 0.2 - 0.3 micron max. Rz 1.0 - 2.5 micron max. R max. < 4 micron | Shaft hardness 55 HRC min. for pressure up to 5 bar 60 HRC min. for pressure > di 5 bar 60 HRC for speed > 4m/sec | Surface treating deep 0.3 mm min. |



AVAILABILITY

To check the availability:

- choose profile and compound from the drop-down menu
 - input the desired housing class
 - input the desired diameter
- Once obtained the availability, a request for quotation can be sent.