

Materials





| Material Name | Material Group | Designation | Temperature Range | | Hardness | Colour | Rod |
|--|--------------------|-------------|-------------------|----------|----------|------------|-------|
| | | | °C | °F | | | |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 90 IRHD | Black | H |
| Nitrile - High | Synthetic Rubber | NBR | -10 +140 | -14 +284 | 80 IRHD | Black | P |
| Nitrile - Low | Synthetic Rubber | NBR | -45 +100 | -45 +212 | 80 IRHD | Black | H |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 80 IRHD | Black | |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 75 IRHD | Black | H |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 73 IRHD | Black | H |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 70 IRHD | Black | H |
| Nitrile - Low | Synthetic Rubber | NBR | -45 +100 | -45 +212 | 70 IRHD | Black | H |
| Nitrile - Medium | Synthetic Rubber | NBR | -30 +120 | -22 +250 | 70 IRHD | Black | H |
| Hallprene - Rubber/ Fabric | Composite | Cotton/FKM | -30 +120 | -22 +250 | | Black | H |
| Fluoroelastomer - Rubber/Fabric | Composite | Cotton/FKM | -20 +150 | -4 +302 | | Black | H |
| Fluoroelastomer | Synthetic Rubber | FKM | -20 +200 | -4 +392 | 75 IRHD | Black | H / P |
| Hythane® 181 | TPE | EU | -45 +110 | -50 +230 | 93 IRHD | Blue | H / P |
| Hallite® 361 | TPE | AU | -30 +110 | -22 +230 | 96 IRHD | Orange | H |
| Polyurethane | TPE | AU | -40 +100 | -40 +212 | 94 IRHD | Dark Blue | |
| Polyurethane | TPE | EU | -45 +110 | -50 +230 | 93 IRHD | Dark Blue | |
| Polyurethane | TPE | EU | -45 +110 | -50 +230 | 93 IRHD | Black | H |
| Polyurethane | TPE | EU | -40 +100 | -40 +212 | 55D | Dark Green | |
| Standard Polyester Elastomer | TPE | | -40 +120 | -40 +250 | 55D | Red | |
| Hydrolysis Stabilised Polyester Elastomer | TPE | | -40 +120 | -40 +250 | 55D | Grey | H |
| Hydrolysis Stabilised Polyester Elastomer | TPE | | -40 +140 | -40 +284 | 72D | Dark Red | |
| Hydrolysis Stabilised Polyester Elastomer | TPE | | -30 +100 | -22 +212 | 40D | Light Grey | |
| Lubricated Polyester Elastomer | TPE | | -40 +120 | -40 +250 | 55D | Cream | |
| Acetal | Engineered Plastic | POM | -45 +120 | -50 +250 | R115 | Orange | H |
| PTFE Glass Filled | Engineered Plastic | PTFE | -50 +200 | -58 +392 | 60D | White | H / P |
| PTFE Glass/MoS2 Filled | Engineered Plastic | PTFE | -50 +200 | -58 +392 | 62D | Grey | H |
| PTFE Bronze Filled | Engineered Plastic | PTFE | -50 +200 | -58 +392 | 65D | Bronze | H |
| PTFE Bronze Filled | Engineered Plastic | PTFE | -50 +200 | -58 +392 | 72D | Bronze | |
| Hallite® 506 Polyester/ Polyester | Composite | | -40 +120 | -40 +250 | | Red | |
| Nylon 12 | Engineered Plastic | PA | -40 +120 | -40 +250 | 72D | Brown | |
| Nylon 6/MoS2 | Engineered Plastic | PA | -40 +120 | -40 +250 | R115 | Black | |
| Glass Filled Nylon | Engineered Plastic | PA | -40 +120 | -40 +250 | R124 | Black | |

“Hallite products, engineered in a wide variety of materials, are chosen by leading manufacturers for their exceptional performance.”

Hallite Seals’ materials, including thermo plastic elastomers, unique bearing compounds, nitrile rubbers and rubber-fabric, provide a range of characteristics to complement and enhance seal designs, providing products for numerous applications.

| Piston | Wiper | Bearing | | Products | Compound Reference |
|--------|-------|---------|------|--|--------------------|
| | H | | | 11, 12, 13, 14, Vee Rings, 33 | 9000141 |
| P | P | | | Special material option | 9000041 |
| | | | | Special material option | 9000471 |
| H | | | M(1) | 50, 53, 694, 65, 68, 77, 730, 735, 753 Sealing elements | 9001411 |
| H | | | | 15 | 9000801 |
| H | | | | 07, 18 | 9000271 |
| H | | | | 16, 54, 754, 755, 770 | 9000771 |
| H | | | | Special material option 15, 18, 56, 58 | 9000211 |
| | | | | 56, 58 | 9000111 |
| H | | | | 07, 09, 11, 13, 14, 15, 18, 21, 51, 52, 56, 58 | 9400251 |
| H | | | | Special material option for standard rubber and rubber/ fabric products (Additional tooling may be required) | 9400431 |
| H / P | H / P | | | Special material option for standard rubber and rubber/ fabric products (Additional tooling may be required) | 9020051 |
| H / P | H / P | | M | 80, 601, 605, 606, 607, 609, 610, 616, 620, 621, 652, 653, 656, 657, 658, 659, 834, 839, 842, 846 | 9220181 |
| H | H | | | 764, 775, 844, 864 | 9220361 |
| | H | | | 860, 862 | 9220321 |
| | H | | | 520, 831 | 9220251 |
| H | | | | 511, 512, 513 | 9220221 |
| | H | | M | Special material option 842 | 9220371 |
| H | H | | | 38, 754, 755 | 9270061 |
| H | | | M | 716, 730, 740, 750 | 9270111 |
| H | | | | 754, 755, 770 | 9270051 |
| | | | M(1) | 155 | 9270201 |
| H / P | | | | 754, 755, 770 | 9270261 |
| H | | H / P | M | AE Rings 621, Vee Pack Headers, Bearing Rings 53, 58, 65, 68, 77 | 9230011 |
| H / P | | | | 16, 54 | PTFE 02 |
| H | H | | | 416, 454, 735 | CDI 702 |
| H | | | | 16, 54, 416, 454, 735 | CDI 741 |
| | | H | | 87 | 9200031 |
| | | H / P | M | 506, 507 | |
| H | | | | Support Rings 50, 53, 64, 68 | 9260041 |
| H | | | | AE Rings 735 | CDI 707 |
| | | H | | 533, 720 | Dynamic 533 |

Key: H- Hydraulic

P- Pneumatic

M- Suitable for water based fluid

(1)- Static applications only



Hallite Seals

Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry. The company enjoys an enviable reputation for high quality and reliability within the mobile hydraulics, mining, off-highway, construction, agriculture, mechanical handling and automation markets.

Hallite products, engineered in a wide variety of advanced materials, are chosen by leading manufacturers for their exceptional performance in the most demanding, safety-critical high specification applications.

Hallite operations are located in Australia, Brazil, Canada, China, France, Germany, India, Italy, the UK and the USA. All Hallite locations are committed to providing quality seals in the shortest possible time. Hallite combines carefully chosen and managed stocks in local markets, supported by a fast track moulding capability. All locations can now boast a CNC machining cell, branded Hallite Service, which can provide immediate delivery for non-standard and breakdown situations.

Additionally a worldwide network of service partners completes the global presence and ensures the full range of Hallite products is readily accessible.



UNITED KINGDOM

Hallite Seals International Ltd.
130 Oldfield Road,
Hampton
Middlesex, TW12 2HT
T: +44 (0)20 8941 2244
F: +44 (0)20 8783 1669
E: seals@hallite.com

CHINA (Suzhou)

Hallite Service (Suzhou) Co. Ltd.
Plant 1, 82 Jiangpu Road
Shengpu
Suzhou Industrial Park
Suzhou 215126
T: +86 (0)512 6295 1601
F: +86 (0)512 6295 1247
E: hallite.suzhou@hallite.com

AUSTRALIA

Hallite Seals Australia Pty. Ltd.
Unit 4, 1273 The Horsley Drive
Wetherill Park,
NSW 2164
T: +61 (0)29 620 7300
F: +61 (0)29 620 7400
E: seals@hallite.com.au

GERMANY

Dichtelemente Hallite GmbH
Billwerder Ring 17
21035 Hamburg
T: +49 (0)40 73 47 48-0
F: +49 (0)40 73 47 48 49
E: seals@hallite.de

BRAZIL

Hallite do Brasil Tecnologia em Vedações Ltda.
Avenida 5, 1367 - Jd Claret
Rio Claro - SP,
13503-254
T: +55 (0)19 35231859
F: +55 (0)19 35324805
E: info@halliteseals.com.br

INDIA

Hallite Sealing Solutions India Pvt. Ltd.
Special Plot #10, 3rd Main,
1st Stage,
Peenya Industrial Estate,
Bangalore - 560 068
T: +91 (0)80 2372 6000/1
F: +91 (0)80 2372 6002
E: seals@hallite.in

CANADA

Hallite Seals (Canada) Ltd.
5630 Kennedy Road,
Mississauga,
Ontario, L4Z 2A9
T: +1 (905) 361 2350
F: +1 (905) 361 2342
E: seals@hallite.ca

ITALY

Hallite Italia srl
Via Francia 21,
Loc. Guasticce
57017 Collesalveti - Livorno
T: +39 (0) 58 642 8287 / 9734
F: +39 (0) 58 642 9845
E: seals@hallite.it

CHINA (Shanghai)

Hallite (Shanghai) Co. Ltd.
785 Xing Rong Road,
Jiading Industrial Park
Jiading District,
Shanghai 201804
T: +86 (0)21 3351 7272
F: +86 (0)21 3351 7085
E: hallite.shanghai@hallite.com

UNITED STATES

Hallite Seals Americas
50777 Varsity Court
Wixom,
Michigan 48393
T: +1 (248) 668 5200
F: +1 (248) 668 5210
E: seals@hallite.us