



Hi-Tech Seals

# 00 *Material Series*



*Honouring a Legacy, Sealing the Future*

## Introducing the 00 Material Series

Since our inception in 1990, Hi-Tech Seals has continually advanced and expanded our material library, and we now offer over 300 compounds. While this wide range gives our customers countless selections for their array of sealing applications, it can also become a challenge to remember or call out a specific material compound number.

With our focus always on our customers first, we are launching the Double 00 material series as a program to simplify some of our most popular and core compound offerings that our clients have come to trust and rely on.

**The Double 00 material series encompasses the same high-quality material compounds customers have trusted for years – simply refreshed and renumbered.** These flagship compounds embody a balance of tradition and innovation.

Like a double agent, the Double 00 program also serves a second purpose: to pay homage to Hi-Tech Seals' founder and recognize our history. Decades ago, a young entrepreneur had a **vision to build a seal company based on customer service, value, and unwavering quality.** That man was our founder, James (Jim) Bond. While Jim recently chose to enjoy his well-earned retirement, the vision, foundation, and legacy he created remains deeply instilled at the heart of our culture and business to this day.

The Double 00 series bridges our past and future. It allows us to celebrate where we started, appreciate how far we've come, and embrace the exciting opportunities ahead. Above all, it reaffirms our mission of helping our customers grow and prosper.

“Onwards and upwards,” always.





## Material Compound Linecard

| Comp. #                            | Duro. (Shore) | Temp. Range (°C)* | Colour | Description  | Certifications / Features                                       | Common Products  |
|------------------------------------|---------------|-------------------|--------|--|---|--|
| <b>Nitrile (NBR)</b>               |               |                   |        |  |   |  |
| <b>N700</b>                        | 70A           | -30 to +100       | Black  | General all-purpose  | <b>00</b> <i>Material Series</i><br>Flagship / Primary stocking | O-rings, T-Seals, D-Seals, Custom moulded parts          |
| <b>N700L</b>                       | 70A           | -55 to +100       | Black  | Low temperature grade  |   | O-rings, T-Seals, D-Seals, Custom moulded parts          |
| <b>N900</b>                        | 90A           | -18 to +100       | Black  | General all-purpose  |   | O-rings, Backups, T-Seals, D-Seals, Custom moulded parts |
| <b>N723</b>                        | 70A           | -40 to +100       | Black  | Excellent fuel and oil resistance                                  | UL 157  | O-rings, Custom moulded parts                            |
| <b>N7M3</b>                        | 70A           | -8 to 100         | Black  | Low swell, fuel resistance   | -   | O-rings, Custom moulded parts                            |
| <b>N930</b>                        | 90A           | -20 to 100        | Black  | Oil and fuel resistance  | Internally lubricated   | O-rings, Custom moulded parts                            |
| <b>N969</b>                        | 90A           | -35 to +125       | Black  | High temperature and increased chemical resistance                 | Peroxide cured  | O-rings, Custom moulded parts                            |
| <b>MN73</b>                        | 73A           | -35 to +100       | Black  | Oil, water, HFC fluid resistance                                   | Machining Grade - Lower durometer                               | Custom machined parts                                    |
| <b>MN81</b>                        | 85A           | -35 to +100       | Black  | Oil, water, HFC fluid resistance                                   | Machining Grade - Standard durometer                            | Custom machined parts                                    |
| <b>Hydrogenated Nitrile (HNBR)</b> |               |                   |        |  |   |  |
| <b>H700</b>                        | 70A           | -40 to +150       | Black  | General all-purpose  | <b>00</b> <i>Material Series</i><br>Flagship / Primary stocking | O-rings, T-Seals, D-Seals, Custom moulded parts          |
| <b>H800</b>                        | 80A           | -50 to +150       | Black  | General all-purpose  |   | O-rings, T-Seals, D-Seals, Custom moulded parts          |
| <b>H900</b>                        | 90A           | -35 to +150       | Black  | General all-purpose  |   | O-rings, Backups, T-Seals, D-Seals, Custom moulded parts |
| <b>H9M00</b>                       | 85-90A        | -35 to +150       | Black  | Internally lubricated, designed for downhole applications          |   | U-Cups, Wipers, T-Seals, Custom moulded parts            |
| <b>H716</b>                        | 75A           | -40 to +150       | Black  | Oil and sour gas resistance  | API 6A Sour Gas DD/EE   | Oilfield parts, U-cups, O-rings                          |
| <b>H717</b>                        | 75A           | -50 to +150       | Black  | Oil and sour gas resistance + low temperature                      | API 6A Sour Gas DD/EE   | Oilfield parts, U-cups, O-rings                          |
| <b>H7B1</b>                        | 70A           | -40 to +150       | Black  | High elongation + high strength                                    | Custom formulation primarily for mud motor boots.               | Mud Motor Boots, Oilfield parts                          |
| <b>H813</b>                        | 85-90A        | -40 to +150       | Black  | High pressure, oil and sour gas resistance                         | API 6A Sour Gas FF/HH + NORSOK/ISO RGD                          | Oilfield parts, U-cups, O-rings                          |
| <b>H822</b>                        | 80A           | -55 to +150       | Black  | Oil and sour gas resistance + low temperature                      | NACE TM0187 Sour Gas  | O-rings, Custom moulded parts                            |
| <b>H851</b>                        | 85A           | -65 to +150       | Black  | High pressure, oil and sour gas resistance + ultra low temperature | NACE TM0187 Sour Gas + NORSOK/ISO RGD                           | S-Seals, FS-Seals, Wellhead parts                        |
| <b>H925</b>                        | 90A           | -55 to +150       | Black  | High toughness with low temperature                                | API 6A Sour Gas DD/EE + NORSOK/ISO RGD                          | S-Seals, FS-Seals, Wellhead parts                        |
| <b>H933</b>                        | 88-95A        | -25 to +150       | Black  | Oil resistance with high tear strength                             | Rubber to Metal Bonding   | Elements, Oilfield parts                                 |
| <b>H966</b>                        | 90A           | -40 to +150       | Black  | High pressure, oil and sour gas resistance                         | API 6A Sour Gas DD/EE + NORSOK/ISO RGD                          | O-rings, Custom moulded parts                            |
| <b>MH71</b>                        | 75A           | -35 to +150       | Black  | Oil, water, HFC fluid resistance                                   | Machining Grade - Lowest durometer                              | Custom machined parts                                    |

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|---|---------------|-------------------|--------|---|---|---|
| <b>MH83</b>                                 | 82A           | -30 to +150       | Green  | Oil, water, HFC fluid resistance                              | Machining Grade - FDA compliant   | Custom machined parts   |
| <b>MH91</b>                                 | 95A           | -20 to +150       | Black  | Oil, water, HFC fluid, sour gas resistance                    | Machining Grade - API Sour Gas FF/HH  | Custom machined parts   |
| <b>MH92</b>                                 | 88A           | -30 to +150       | Black  | Oil, water, HFC fluid, sour gas resistance, high pressure     | Machining Grade - API Sour Gas FF/HH + ISO RGD  | Custom machined parts   |
| <b>Fluorocarbon (FKM)</b>                   |               |                   |        |   |   |   |
| <b>V700A</b>                                | 75A           | -18 to +200       | Black  | General all-purpose   | <br>Flagship / Primary stocking   | O-rings, T-Seals, D-Seals, Custom moulded parts               |
| <b>V900A</b>                                | 90A           | -15 to +200       | Black  | General all-purpose   |   | O-rings, Backup Rings, T-Seals, D-Seals, Custom moulded parts |
| <b>V9M00</b>                                | 90A           | -18 to +200       | Black  | Custom designed for downhole applications.                    |   | U-Cups, Wipers, T-Seals, Custom moulded parts                 |
| <b>V711</b>                                 | 75A           | -18 to +200       | Black  | Excellent fuel resistance and compression set                 | UL 157 / Genuine Viton™ A   | O-rings, Custom moulded parts                                 |
| <b>V717</b>                                 | 75A           | -40 to +200       | Black  | Low-temperature with steam resistance                         | Suitable for valves at -60C / Primary stocking  | O-rings, Custom moulded parts                                 |
| <b>V739</b>                                 | 75A           | -35 to +200       | Black  | Premium chemical resistance                                   | Genuine Viton™ ETP (extreme)  | O-rings, Custom moulded parts                                 |
| <b>V828</b>                                 | 80A           | -25 to +200       | Black  | High strength with improved chemical (acid) resistance        | Genuine Viton™ GBL  | O-rings, Custom Moulded Parts                                 |
| <b>V866</b>                                 | 80A           | -40 to +200       | Black  | Low-temperature with diesel and methanol resistance           | Primary stocking  | O-rings, Custom moulded parts                                 |
| <b>V925</b>                                 | 90A           | -30 to +200       | Black  | Premium chemical resistance                                   | Genuine Viton™ ETP (extreme)  | O-rings, Vee Packing (HPP)                                    |
| <b>V991</b>                                 | 95A           | -13 to +200       | Black  | High hardness with improved fluid resistance                  | NORSOK/ISO RGD / Genuine Viton™ B   | O-rings, Custom moulded parts                                 |
| <b>V9M2</b>                                 | 90A           | -40 to +200       | Black  | Premium performance with low temperature and fluid resistance | API 6A Sour Gas FF/HH + NORSOK/TOTAL/NACE RGD   | O-rings, U-Cups, Custom moulded parts                         |
| <b>V9MY</b>                                 | 90A           | -25 to +200       | Black  | Excellent oilfield grade available for moulding and machining | NACE TM0187 Sour Gas + NORSOK/ISO RGD   | U-Cups, Wipers, T-Seals, Machined parts, Custom moulded parts |
| <b>MV74</b>                                 | 74A           | -25 to +200       | Black  | Oil, HFD-U + HETG fluid resistance                            | Machining Grade - Low durometer   | Custom machined parts   |
| <b>MV81</b>                                 | 85A           | -25 to +200       | Brown  | Oil, acid, HFD-U + HETG fluid resistance                      | Machining Grade - FDA Compliant   | Custom machined parts   |
| <b>MV90</b>                                 | 90A           | -17 to +200       | Black  | Oil, HFD-U + HETG fluid resistance                            | Machining Grade - AMS 3218C / Genuine Viton™ A  | Custom machined parts   |
| <b>MV91</b>                                 | 88A           | -25 to +200       | Black  | High pressure with Oil, acid, HFD-U + HETG fluid resistance   | Machining Grade - Genuine Viton™ B  | Custom machined parts   |
| <b>Tetrafluoroethylene-propylene (FEPM)</b> |               |                   |        |   |   |   |
| <b>A800</b>                                 | 80A           | -2 to +232        | Black  | General all-purpose   | <br>Flagship / Primary stocking | O-rings, Custom moulded parts                                 |
| <b>A900</b>                                 | 90A           | 0 to +232         | Black  | General all-purpose   |   | O-rings, Custom moulded parts                                 |
| <b>A811</b>                                 | 80A           | -2 to +232        | Black  | Oil and sour gas resistance                                   | NACE TM0296 Sour Gas / Genuine AFLAS  | O-rings, Custom moulded parts, Oilfield parts                 |
| <b>A9M2</b>                                 | 93A           | 0 to +250         | Black  | High pressure oilfield applications                           | NORSOK Sour Gas + NACE/TOTAL/NORSOK/ISO RGD   | O-rings, Custom moulded parts, Oilfield parts                 |
| <b>MA11</b>                                 | 87A           | -10 to +220       | Black  | High pressure with oil, acid, HFD-U + HETG, steam resistance  | Machining Grade - Standard durometer  | Custom machined parts   |

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