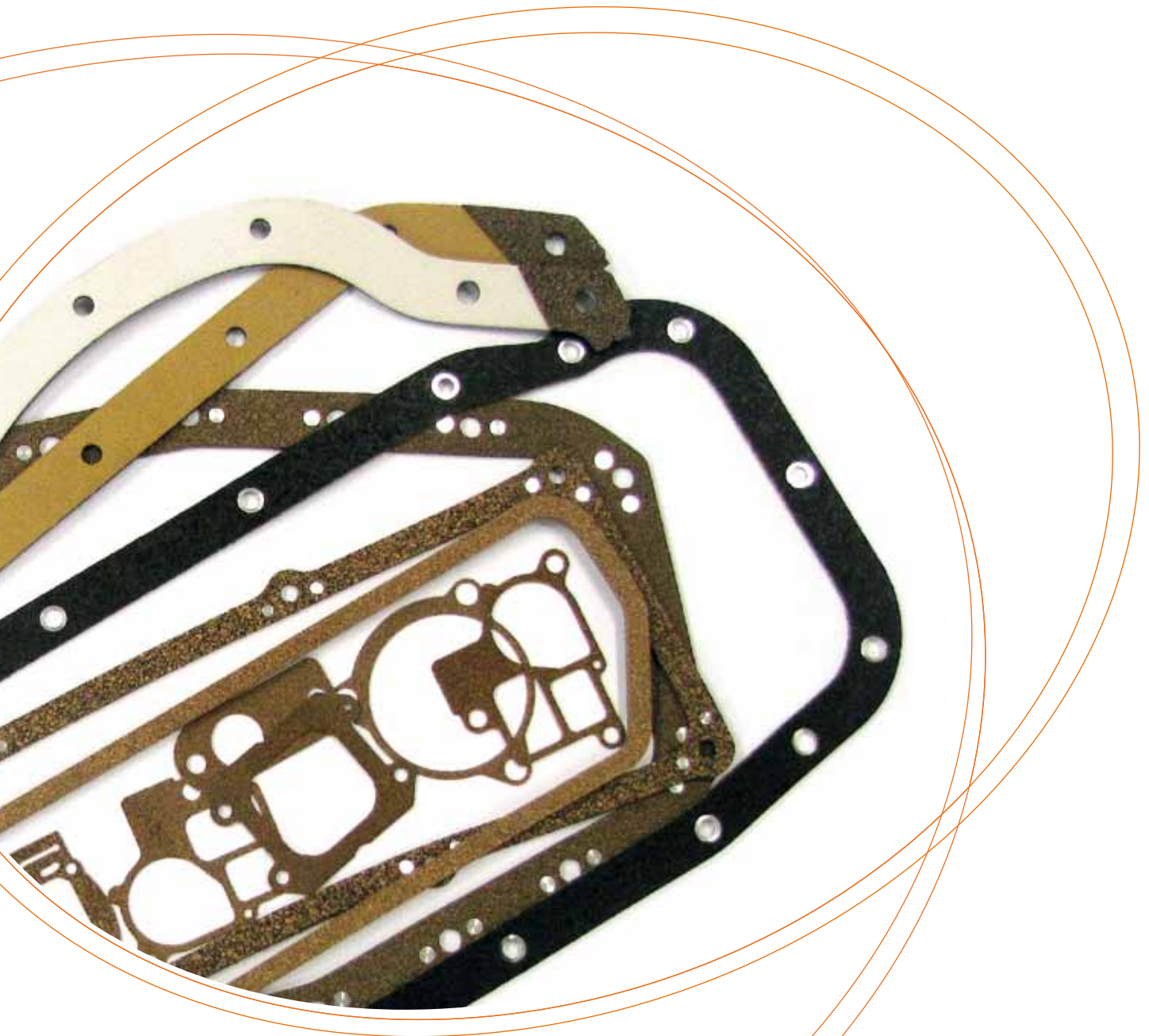


# TECHSEAL

REINVENTING  
TECHNOLOGY FOR  
SEALING APPLICATION



Reinventing how cork engages the world.



**AMORIM**  
CORK COMPOSITES



# REINVENTING HIGH TECHNOLOGY SEALS

**TechSeal** is a new enhanced family of products, especially designed and tested on a wide range of applications.

Detailed application brochures are available, or check our **JointQTool** sealing software on our website for a quick and comprehensive calculation of your joint system, or contact us for additional information to define our best solution for your sealing requirement.

# SOFT GASKETS TECHNOLOGY FOR SEALING

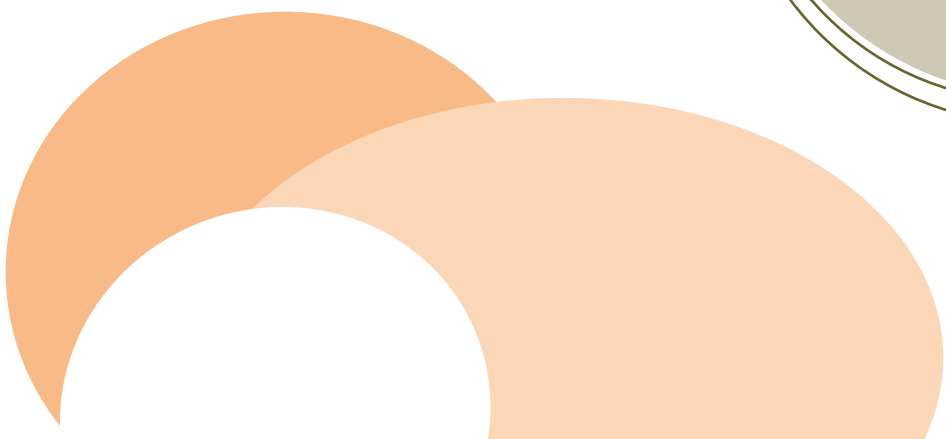
**TechSeal** is soft gasket technology providing a range of products that are designed to withstand a wide variety of application needs, whilst providing reliable performance and efficient manufacturing options.

Its unique features have made it the preferred material used across multiple applications and industries, ranging from MARINE, GAS, INDUSTRIAL, HEAVY DUTY and AUTOMOTIVE, keeping up with an ever changing market with specific solutions for fuels such as the new ethanol and biodiesel fuel blends.



## REINVENTING SUSTAINABILITY FOR THE FUTURE

Resilience, durability and impermeability are intrinsic features of cork.



# Product range

| GRADE                 | MATERIAL DESCRIPTION   | APPLICATIONS | DENSITY<br>(lb/ft <sup>3</sup> )<br>(Kg/m <sup>3</sup> ) | DUROMETER<br>(pts)<br>Shore A | COMPRESSIBILITY<br>(%)<br>(400 psi) | TENSILE STRENGTH (min)<br>(psi)<br>(Mpa) |
|-----------------------|--|--------------|--|-------------------------------|-------------------------------------|--|
| TS1028 <sup>(3)</sup> | Cork/Nitrile blend, medium loading material used for natural gas and LPG applications.   | A            | 43 – 56<br>700 - 900                                     | 65 - 75                       | 25 - 40                             | 174<br>1,2                               |
| TS1237                | Cork/SBR blend, with outstanding low sealing stress for low loading applications. Suitable for most lubrication fluids.  | A I          | >30<br>>480  | 50 - 70                       | 30 - 50                             | 135<br>0,9                               |
| TS1302 <sup>(1)</sup> | Cork/Nitrile blend, high loading material used for natural gas and LPG applications. Also suitable for fuels, bio-fuels, oils and coolants.                                      | G            | 69 – 78<br>1100 - 1250                                   | 70 - 90                       | 8 - 20                              | 798<br>5,5                               |
| TS1400                | Cork/Nitrile blend, high performance, high loading material, suitable for fuels, bio-fuels, oils and coolants.   | A H S        | 62 – 72<br>1000 - 1150                                   | 75 - 90                       | 10 - 22                             | 508<br>3,5                               |
| TS1521                | Cork/SBR blend, with outstanding low sealing stress for low loading applications. Suitable for most lubrication fluids.  | A E I S      | 35 – 47<br>560 - 760                                     | 50 - 70                       | 30 - 55                             | 131<br>0,9                               |
| TS1800                | Cork/Nitrile blend, medium loading material, suitable for fuels, bio-fuels, oils and coolants.   | A H I S      | 50 – 65<br>800 - 1040                                    | 65 - 85                       | 15 - 30                             | 290<br>2,0                               |
| TS2180                | Cork/EVA blend, medium loading material. Suitable for most lubrication fluids with excellent high temperature resistance.  | A I          | 40 - 55<br>640 - 880                                     | 55 - 75                       | 25 - 45                             | 230<br>1,58                              |
| TS2585 <sup>(2)</sup> | Cork/Neoprene blend, fire resistant low loading material. Excellent for low temperature applications and suitable for most lubrication fluids.                                   | E            | 40 – 47<br>650 - 750                                     | 45 - 60                       | 40 - 60                             | 73<br>0,5                                |
| TS3510                | Cork/EPDM blend, medium loading material used for non combustible gases and outdoor applications. Excellent for very low temperature applications.                               | E I          | 59 – 66<br>950 - 1050                                    | 55 - 65                       | 25 - 40                             | 290<br>2,0                               |
| TS3740                | Cork/SBR blend, sponged low loading material good for low temperature applications.  | E I          | >28<br>>450  | 30 - 50                       | 30 – 50 (100 psi)                   | 73<br>0,5                                |
| TS4600                | Cork/Nitrile blend, medium loading material. Suitable for most lubrication fluids.   | A            | >40<br>>640  | 60 - 70                       | 25 - 45                             | 145<br>1,0                               |
| TS4800                | Cork/ACM blend, medium loading material. Suitable for most lubrication fluids with good high temperature resistance.   | A I          | 45 - 65<br>720 - 1040                                    | 55 - 75                       | 20 – 45                             | 240<br>1,65                              |
| TS5500                | Cork/Nitrile blend, medium loading material used for natural gas and LPG applications.   | G            | 36 – 44<br>570 - 700                                     | 55 - 70                       | 35 - 50                             | 145<br>1,0                               |
| TS5600                | Cork/Nitrile blend, medium loading material. Suitable for most lubrication fluids.   | E I          | >45<br>>720  | 60 - 75                       | 25 - 40                             | 145<br>1,0                               |
| TS7000                | Cork/Silicone blend, medium loading material used for very high and low temperature resistance, exceptional resistance to coolants and acceptable resistance to most lubricants. | E H I S      | 62 – 75<br>1000 - 1200                                   | 65 - 80                       | 10 - 30                             | 247<br>1,7                               |
| TS7090                | Cork/SRB blend, medium low loading material used for natural gas and LPG applications.   | G            | 40 – 46<br>640 - 740                                     | 50 - 70                       | 30 - 50                             | 218<br>1,5                               |
| TS7100 <sup>(1)</sup> | Cork/Nitrile blend, medium loading material, suitable for fuels, bio-fuels, and oils.  | A H          | 53 – 63<br>850 - 1000                                    | 60 - 75                       | 25 - 45                             | 247<br>1,7                               |
| TS7110 <sup>(1)</sup> | Cork/Epichlorohydrin blend, medium to high loading material, exceptionally suited for fuels, bio-fuels, as well as oils and coolants.  | H S          | 62 – 78<br>1000 - 1250                                   | 70 - 85                       | 15 - 30                             | 290<br>2,0                               |
| TS7330                | Cork/Nitrile blend, high loading material, suitable for most lubricants.   | H I          | 59 – 69<br>950 - 1100                                    | 75 - 90                       | 10 - 20                             | 406<br>2,8                               |

## Certifications and Approvals

<sup>(1)</sup> UL – Listed

<sup>(2)</sup> UL – Compliant

<sup>(3)</sup> UL – DVGW – Approved

## Applications

A Automotive

E Electric & Electronic Enclosures

G Natural Gas & LPG

H Heavy Duty Diesel

I Industrial

S Small Gasoline Engines



## Main advantages

High performance sealing designed to resist oils, fuels and gases while maintaining the same initial technical performance.

- Tolerance to extreme surface finishing conditions, such as “AS CAST”.
- Conformable to flanges with higher “out-of flatness” values, such as stamped steel and plastic covers.
- Lower bolt torques possible.
- Fewer fasteners in the system.
- Smaller or lower grade fasteners.
- Components with less mass and more distortion.
- Stable damping values across the frequency range reducing vibrations effectively.
- Easy to fabricate.

## A wide range of applications

**TechSeal** products provide manufacturing options that will ensure a reliable finished product component.

**TechSeal** products have unique characteristics and perform in a wide range of industries and applications such as:

- Automotive
- Electric & Electronic Enclosures
- Heavy Duty Diesel
- Industrial
- Natural Gas & LPG
- Small Gasoline Engines

