



Hawthorn Hygienic is the UK's leading manufacturer and stockist of Clean Room produced Innosil® Pharmaceutical Grade Platinum Cured Silicone Braided Hose, Tubing and Profiles.

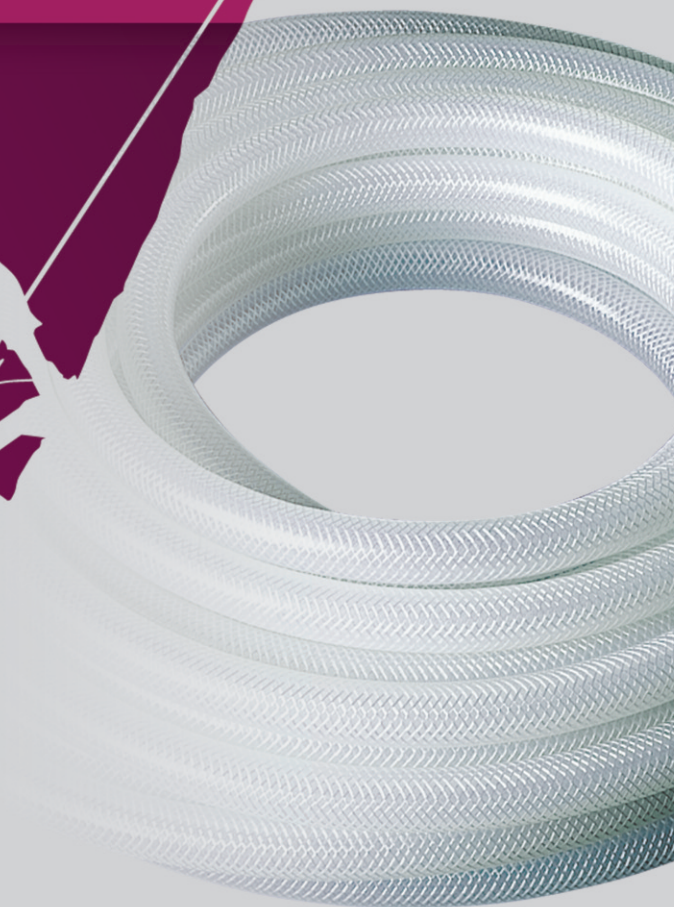
Introducing...

Innosil® - Hygienic

Crevice Free Moulding Technology

Hy-Braid®

A Revolution in Braid Reinforcement



Innosil®

[www.hawthornhygienic.com](http://www.hawthornhygienic.com)

Linking Science & Industry by Tube®



Innosil

## Manufactured as if your life depended on it

Our production facility only produces **Platinum Cured Silicone** product thus ensuring NIL cross-contamination.

Our Clean Room is validated to ISO14644-1:2015 with the main manufacturing area Class 6 and Goods in & out Class 7.

Our facility complies with FED STD 209E in addition to FDA, MCA & EP & GMP guidelines.

Created specially for fluid handling in the most critical applications, Innosil<sup>®</sup> inspires confidence in a way that no other competing product can.

[www.hawthornhygienic.com](http://www.hawthornhygienic.com)



Innosil®

# The Philosophy

To make the procurement of Platinum Cured Silicone components an effortless and seamless process.

To focus exclusively on the design, manufacture and distribution of both standard and specialist 'one-off' products to your industry.

To work with you to improve your existing systems and to offer our extensive distributor network to source additional components if required.

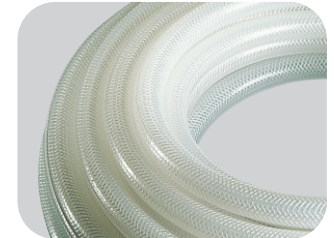
To become the leading Platinum Cured Silicone component supplier working for you and with you to achieve our common goals and objectives.

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# The Products

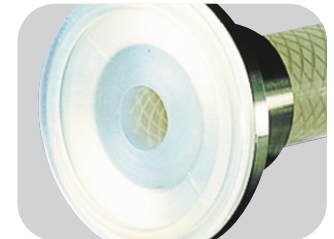
## Innosil® - Braided

High Pressure Capability  
Polyester, Glass or Nomex braid  
Variety of colours  
Variety of constructions



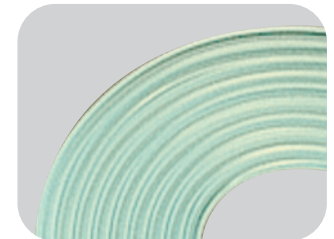
## Innosil® - Hygienic

Crevice Free Moulding Technology  
Discourages microbiological contamination 'No Touch Technique' for cleaner assembly



## Innosil® Tubing and Profiles

Over 70 sizes of single lumen in stock  
No minimums for custom runs



All products are manufactured in a FED STD 209E Class 10,000 Clean Room using procedures controlled by our accreditation to ISO9001:2015.

Innosil®

## Tube Profiles

Innosil® is the silicone to specify where absolute quality is paramount. It is fully certificated, lot traceable Platinum Cured conforming to the requirements of USP Class 6, EP and FDA.

Innosil® Platinum Cured Silicone offers the highest levels of purity & clarity. A much 'tighter' surface cure produces a finished component having enhanced technical properties and a less sticky surface.

Innosil® is suitable for the most critical applications particularly for long term use in active drug production and associated pharmaceutical uses.

All Innosil® products are manufactured in an ISO Class 7 FED STD 209E Class 10,000 rated Clean Room facility using procedures controlled by our accreditation to ISO9001:2015.

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Innosil®

# Braided

Braided is produced in the most versatile and flexible Clean Room manufacturing facility in Europe. Available in a variety of colours and constructions. Regular stock sizes and colour combinations are shown below.

Nominal Bore (mm)	Nominal Wall (mm)	Nominal OD (mm)	Colour Combination with Polyester Reinforcement (Glass or Nomex reinforcement and other colours available on request)	INNOSIL REFERENCE
3.0	2.5	8.0	Translucent Inner / Translucent outer	SIL030250PB
3.0	2.5	8.0	Translucent Inner / Red outer	SIL030250PB-RT
4.0	2.5	9.0	Translucent Inner / Red outer	SIL040250PB-RT
5.0	3.0	11.0	Translucent Inner / Translucent outer	SIL050300PB
6.0	3.0	12.0	Translucent Inner / Translucent outer	SIL060300PB
6.0	3.0	12.0	Translucent Inner / Red outer	SIL060300PB-RT
8.0	3.2	14.2	Translucent Inner / Translucent outer	SIL080320PB
8.0	3.2	14.2	Translucent Inner / Red outer	SIL080320PB-RT
9.5	3.2	12.7	Translucent Inner / Translucent outer	SIL095320PB
10.0	3.5	17.0	Translucent Inner / Red outer	SIL100350PB-RT
12.0	3.5	19.0	Translucent Inner / Red outer	SIL120350PB-RT
12.7	3.2	19.1	Translucent Inner / Translucent outer	SIL127320PB
14.0	4.0	22.0	Translucent Inner / Red outer	SIL140400PB-RT
16.0	4.0	24.0	Translucent Inner / Translucent outer	SIL160400PB
16.0	4.7	25.4	Translucent Inner / Red outer	SIL160470PB-RT
18.0	4.5	27.0	Translucent Inner / Red outer	SIL180450PB-RT
19.0	5.0	29.0	Translucent Inner / Translucent outer	SIL190500PB
20.0	5.0	30.0	Translucent Inner / Red outer	SIL200500PB-RT
22.0	5.8	33.6	Translucent Inner / Translucent outer	SIL220580PB
22.0	5.8	33.6	Translucent Inner / Red outer	SIL220580PB-RT
25.0	5.8	36.6	Translucent Inner / Translucent outer	SIL250580PB
25.0	5.8	36.6	Translucent Inner / Red outer	SIL250580PB-RT

In addition to the standard pharmaceutical grade, Innosil®-Braided is also available in food/ beverage and industrial grades.

Compounds specifically designed for single use applications are catered for through our Disposil® range of products. Compounds with additives designed to reduce microbiological growth are also available. Information on both compounds are available upon request.

Translucent inner tube with a variety of reinforcement choices and outer skin colours allow product to retain the purity of the Innosil® Platinum Silicone grade hose liner whilst offering colour identification and usage flexibility capability on the outside.

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Innosil®

# Hygienic

Take the best  
Platinum Cured Silicone  
hose & tubing...

State of the Art moulding technology  
enabling production of 'Crevice Free'  
end terminations.

Creates a component where the only surface in  
contact with the transferred medium is  
silicone.

Allows 'No Touch Technique' to be employed  
during installation of the assembly on site.

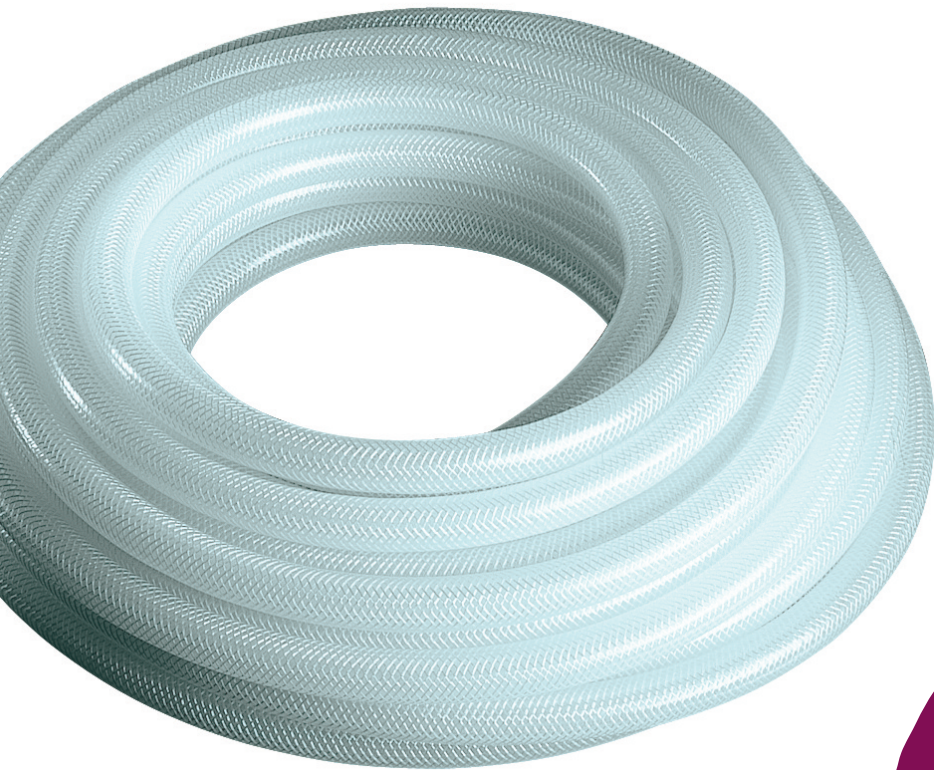
Sealing gasket and hose/tube are not only one  
piece but are manufactured using exactly the  
same material allowing easy traceability.

The complete assembly can even be produced  
from exactly the same batch of silicone if  
required.

...and improve it!



What is **Hy-Braid**<sup>®</sup> and how does it **benefit you**?



Innosil<sup>®</sup>

## Hy-Braid<sup>®</sup>

Hy-Braid<sup>®</sup> is a new, chemically and mechanically enhanced version of multi filament polyester yarn developed over many years by our R&D team.

It provides and much better bond between the polyester filaments and the silicone whilst not imparting any leachables into critical product streams.

It enables the Innosil<sup>®</sup>-Braided range to operate at much higher pressures and removes the 'cobra effect' failures common in similar inferior products.

Hy-Braid<sup>®</sup> also allows our Crevice Free Moulding Technology to be used to create assemblies and manifolds with no hose tails or barbs which reduce the bore of the tube and reduce flow capability whilst retaining high pressure performance.

Linking Science & Industry by Tube<sup>®</sup>

Innosil<sup>®</sup> 

HAWTHORN HYGIENIC LIMITED

Unit A7 | Stafford Park | 15 | Telford | TF3 3BB |

UK Tel: +44 (0)1952 201554 |

Email: [sales@hawthornhygienic.com](mailto:sales@hawthornhygienic.com) |

[www.hawthornhygienic.com](http://www.hawthornhygienic.com)