

HYDROSEAL

Organic extenders
for silicone sealants

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HYDROSEAL

Performance sealing you can trust

Special Fluids Hydroseal range are hydrocarbon products used as organic extenders in sealants as an alternative to silicone oils by leading manufacturers of sealants and caulks around the world. They not only deliver superior functional performances - improved transparency and extrusion rate, enhanced smoothing, reduced stringing - but they also come with outstanding purity specifications for cleaner and safer applications. Last but not least, their competitive positioning considerably reduces formulation costs compared to silicone oils.

A comprehensive range of oil extenders

Hydroseal fluids have been developed to suit the needs of DIY & Professional sealants and caulks

- **HYDROSEAL G232H and G250H:** excellent compatibility, typically for entry-level products and DIY stores.
- **HYDROSEAL G3H:** high compatibility, with reduced shrinkage, offering an excellent cost / performance compromise. It is generally used in standard sealing products for bathrooms or glazing for example.
- **HYDROSEAL G285H:** replacing G3H, upscale for all applications, an intermediary product between HYDROSEAL G3H and G400H.
- **HYDROSEAL G400H:** for professional quality sealants.
- **HYDROSEAL G290H and G340H:** for professional quality sealants, address the latest industry requirements for glass sealing or sanitary joints in terms of VOC emissions reduction.

HYDROSEAL can be used in acetoxysilicone sealant formulations as well as in alkoxy and oxime silicone sealants.

High reliability characteristics

- **Exceptionally pure** (extra low aromatic content, no yellowing in cured sealants even with transparent sealants)
- **Clear and odorless**
- **Excellent UV stability**
- **Low shrinkage grades available**
- **Non-staining fluids against yellow alloys and aluminum**
- **Fully compatible with silicone polymers, high loads possible, strong cost-reducing effect**
- **Approved for indirect food contact** (to find out more about these FDA authorizations, please contact us)
- **Mild to skin**
- **Non VOC** (Volatile Organic Compound) according to EC/1999/13 and LVP-VOC (low vapor pressure VOC) according to CARB (California Air Resources Board).

Compliant with sealants VOC standards

The VOC emission rate of a reference silicone sealant containing 25% of HYDROSEAL G3H has been measured and rated A+, the highest score under French regulations.

It also meets the German AgBB requirement after 30 days. Under the same conditions, the products also comply with the US LEED and the California Department of Public Health Indoor Air Quality Program.



HYDROSEAL G290H and G340H have been specifically developed for interior use complying with new low VOC emission Ecolabels.



HYDROSEAL	G232H	G250H	G3H	G285H	G400H
Max Compatibility (0°C)	>60%	~45-50%	~40%	~30%	~20%
Shrinkage* (% Volume loss at 70°C - ISO 10563)	5	4	3	2	1
with 20% extender	~28%	~24%	~23%	~19%	~14%
with 30% extender	~40%	~37.5%	~34%	~27%	-

*rating: 1 = the best, 5 = the poorest

Test conducted with a standard acetic cured sealant formulation

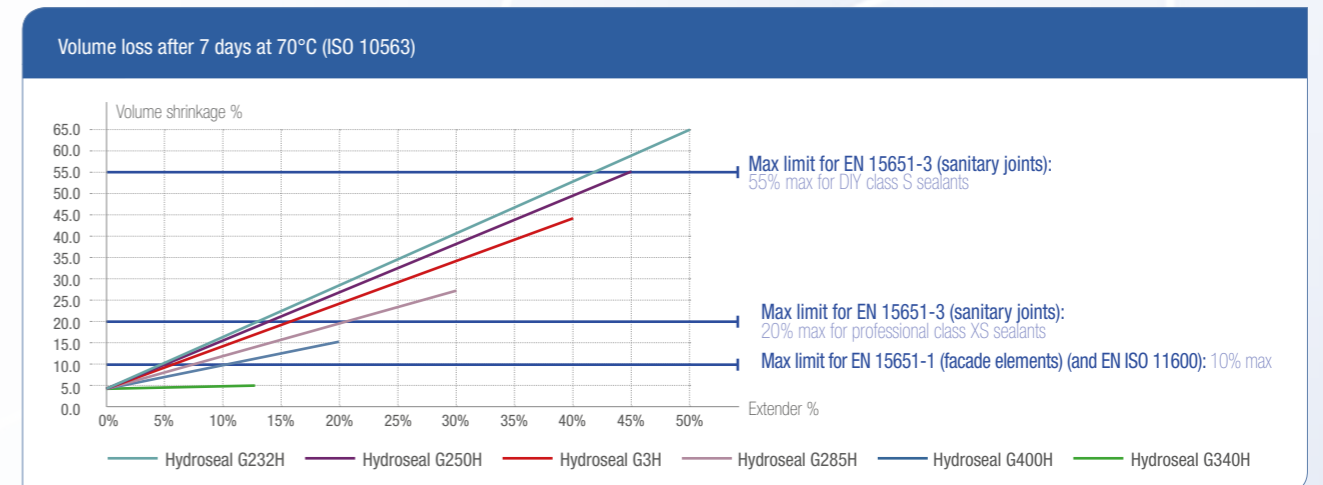
Max compatibility is determined after 7 days storage at 0°C: bleeding, oil drops or oily film on surface are observed (visual method). Shrinkage performance is determined according to (the ISO 10563) standard: 7 days at 70°C, forced air circulation

For professional applications and low shrinkage requirements (<10%), Total also offers HYDROSEAL G290H and G340H with maximum compatibility (0°C) of respectively 15% and 10-15%.

High performance behaviour

> SHRINKAGE

HYDROSEAL allows you to match the most stringent shrinkage performance of future or existing standards (EN ISO 11600, EN 15651-1 and 3, etc.)



> COMPATIBILITY

Thanks to the high compatibility of HYDROSEAL products with silicone polymers, formulators can choose high dilution ratios to optimize formulation costs and precisely meet customer demands.

