

# Carbopol® Polymers

## An excellent choice for oral suspensions

Lubrizol Life Science Health's (LLS Health's) Carbopol® polymers are efficient suspending agents that **simplify manufacturing and improve the pediatric/geriatric dosing experience.**

### Patient Centric

- **Convenient:** pourable rheology in an easy-to-swallow format
- **Customizable:** multiple flavor options without loss of performance
- **Unique:** benefits such as tissue protection or "no-spill" liquids
- **Reliable:** safe, high-quality ingredients with long history of use



### Formulator Friendly

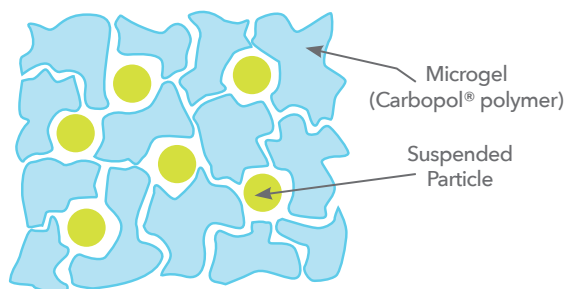
- **Permanent Suspension:** low inclusion level due to high yield value of polymer
- **Simplified Manufacturing:** cold processing and low thixotropy for ease of mixing
- **Consistent Performance:** low bioburden and minimal lot-to-lot variation
- **Bioavailability Enhancement:** excellent mucoadhesive properties enable differentiated products

## Superior Suspending Ability of Carbopol® Polymers

Carbopol® polymers have been used worldwide in oral suspensions for many years to suspend insoluble ingredients, modify flow characteristics, and provide bioadhesion.

They provide excellent suspending ability and virtually eliminate the problem of settling, even when used at very low levels.

Carbopol® polymers swell when hydrated and neutralized, forming a colloidal dispersion.



Carbopol® polymers offer superior suspending ability with minimal sedimentation owing to high yield value rather than viscosity.



## Case Study: Shelf Stable Paracetamol Oral Suspension

- **Description:** a stable, palatable, and non-sedimenting oral suspension formulation
- **Polymer:** Carbopol® 974P NF polymer
- **Summary:** The suspension has been studied for sedimentation using Turbiscan analysis. This platform can be extended to other APIs and dose strengths.

## Quality and Regulatory Support

Carbopol® polymers and Noveon® polycarbophil are manufactured under CGMP in ISO:9001 certified facilities, have established DMFs, and have been extensively tested for biocompatibility and safety.

These excipients have been successfully used in numerous commercial products for variety of applications. We partner with our customers, offering processing and formulation support to expedite your product to market.



## Start your project today

For more information, sample requests, and stability data, [contact our team today.](#)

