

The LLS Health Abbreviated Excipient Guide

Carbopol® polymers, Noveon® polycarbophil, and Pemulen™ polymeric emulsifiers are multifunctional excipients that can be used in a wide range of oral, mucosal, and topical formulations. This Abbreviated Excipient Guide allows you to discover the appropriate LLS Health polymer grade and associated functionality that best fits your formulation needs.

| EXCIPIENTS | | | | | | | | | | | | | | | | | |
|---------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|--------------------------------|------------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------------|--------------------------|---------------------------|---------------------------|
| Key Property | Carbopol® 71G NF Polymer | Carbopol® 971P NF Polymer | Carbopol® 974P NF Polymer | Carbopol® 980 NF Polymer | Carbopol® 981 NF Polymer | Carbopol® 5984 EP Polymer | Carbopol® ETD 2020 NF Polymer | Carbopol® Ultrez 10 NF Polymer | Carbopol® 934 NF Polymer | Carbopol® 934P NF Polymer | Carbopol® 940 NF Polymer | Carbopol® 941 NF Polymer | Carbopol® 1342 NF Polymer | Noveon® AA-1 Polycarbophil, USP | Pemulen® TR-1 NF Polymer | Pemulen® TR-2 NF Polymer | |
| Key Features | Extended Release | • | • | • | | | | | | • | | | | | • | | |
| | Thickener/Rheology Modifier | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Bioadhesion | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Suspension & Emulsion Stabilizer | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Emulsifier | | | | | | | | | | | | | • | | • | • |
| | Taste Masking | | • | • | | | | | | | | | | | • | | |
| | Direct Compression | • | | | | | | | | | | | | | | | |
| | Easy to Disperse | | | | | | | • | • | | | | | | | | |
| | Tablet Binder | • | • | • | • | | | | | | | | | | | | |
| Dosage Forms | Oral Solid Dose | • | • | • | | | | | | • | | | | | • | | |
| | Oral Solutions & Suspensions | | • | • | | | | | | • | | | | | • | | |
| | Semisolids | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Markets Served | Oral Drug Delivery | • | • | • | | | | | | • | | | | | • | | |
| | Topical & Transdermal Drug Delivery | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| | Ophthalmic Drug Delivery | | • | • | • | • | • | • | • | | | | | | • | • | • |
| | Oral Care | | • | • | • | • | | | • | | | | | | • | | |
| Monograph | USP/NF | Carbomer Homopolymer Type A | Carbomer Homopolymer Type A | Carbomer Homopolymer Type B | Carbomer Homopolymer Type C | Carbomer Homopolymer Type A | Carbomer Homopolymer Type B | Carbomer Interpolymer Type B | Carbomer Interpolymer Type A | Carbomer 934 | Carbomer 934P | Carbomer 940 | Carbomer 941 | Carbomer 1342 | Polycarbophil | Carbomer Copolymer Type B | Carbomer Copolymer Type A |
| | Ph. Eur. | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | | | | | | | | | |
| | IP | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | Carbomer | | | | | | | | | |
| | ChP | Carbomer Homopolymer | Carbomer Interpolymer | Carbomer Interpolymer | | | | | | | | |
| | Japan | Carboxyvinyl Polymer | | | Carboxyvinyl Polymer | Carboxyvinyl Polymer | Carboxyvinyl Polymer | Carboxyvinyl Polymer | | | | |
| Solvent | Ethyl Acetate | • | • | • | | | | | | | | | | | • | | |
| | Cosolvent | | | | | • | • | • | • | | | | | | • | • | • |
| | Benzene | | | | | | | | | • | • | • | • | • | | | |
| Typical Usage Level | Oral Solid Dose - Extended Release | 10-30 wt% | 5-10 wt% | 5-10 wt% | | | | | | | | | | | | | |
| | Oral Solid Dose - Immediate Release | | 0.5-3 wt% | 0.5-3 wt% | | | | | | | | | | | | | |
| | Oral Solutions & Suspensions | | 0.2-1 wt% | 0.2-1 wt% | | | | | | 0.2-1 wt% | | | | | 0.2-1 wt% | | |
| | Other Topical | | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% | 0.5-3 wt% |
| | Topical Emulsion | | | | | | | | | | | | | 0.2-0.4 wt% | | 0.2-0.4 wt% | 0.2-0.4 wt% |
| Toxicology Testing | Oral | • | • | • | | | • | • | | • | • | • | • | • | • | | |
| | Dermal | • | • | • | | • | • | • | • | • | • | • | • | • | • | • | • |
| | Ocular | • | • | • | | | • | • | • | • | • | • | • | • | • | • | • |

= Primary Property