Kollidon® CL grades: Crospovidones for oral applications

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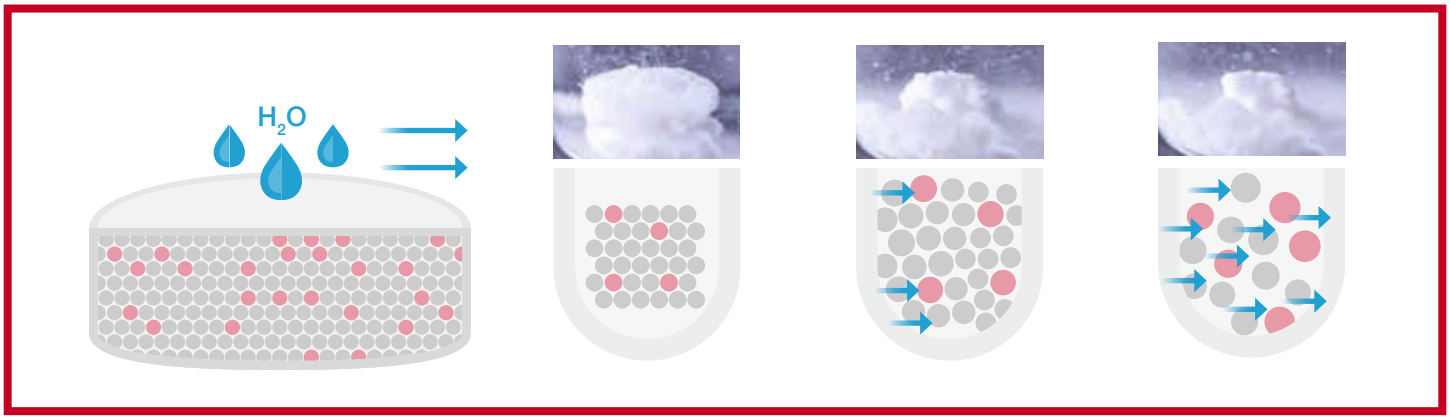
BASF's crospovidone portfolio of insoluble Kollidon® CL grades comprises disintegrants specifically designed to promote rapid tablet breakdown for fast active drug release.



The Kollidon® CL family of grades includes four distinct products: Kollidon® CL, Kollidon® CL-F, Kollidon® CL-SF, and Kollidon® CL-M, offering a versatile range of options for pharmaceutical formulations.

Check out the benefits of Kollidon® CL grades in oral dosage forms:

- Crospovidones are super-disintegrants with the main function of accelerating tablet or granule disintegration through particle swelling without gel formation in a broad range of concentrations, from 1 to over 5%.
- Kollidon® CL grades play a crucial role in improving drug release and dissolution.
- Kollidon® CL-F and Kollidon® CL-SF are unique disintegrants because they combine faster disintegration with great binding properties due to their smaller particle size.
- Due to their water adsorption properties, Kollidon® CL grades can act as stabilizers of water-sensitive compounds in solid dosage forms.
- Kollidon® CL, Kollidon® CL-F, and Kollidon® CL-SF are packaged using the BASF PeroXeal® approach to minimize peroxide formation.



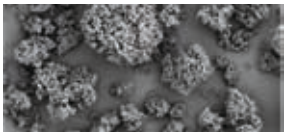
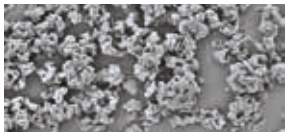
Mechanism of action of crospovidone (pink dots): swelling without forming gel.

Product name	Benefits	Main applications
Kollidon® CL	Coarse particles for a very fast disintegration of tablets, capsules and granules	Disintegrant of choice for large and standard tablets
Kollidon® CL-F	Fine particles for a fast disintegration. Advantageous in regard to blend uniformity, especially with small tablets	Disintegrant of choice for standard to small tablets. Good binding properties
Kollidon® CL-SF	Very-fine particles, ideal for oral dispersible tablets (ODTs), providing an excellent mouth sensation	First choice disintegrant for ODTs. Good binding properties
Kollidon® CL-M	Micronized particles. Stabilize oral suspensions. Opacifier in film coatings. Excellent dry binding properties	Easy to re-disperse API in oral suspensions. TiO_2 replacement in film coatings. Very good binder

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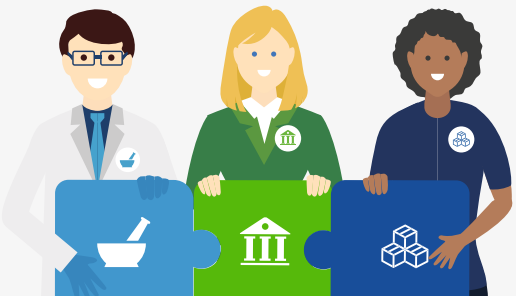
Product characteristics

Parameter	Kollidon® CL	Kollidon® CL-F	Kollidon® CL-SF	Kollidon® CL-M
				
Type	Type A	Type A	Type B	Type B
Bulk Density, g/ml	0.30 – 0.40	0.18 – 0.28	0.10 – 0.16	0.15 – 0.25
Hydration capacity, g water/g polymer	3.5 – 5.5	5.0 – 6.6	7.0 – 8.5	3.0 – 4.5
d (0.1) [µm]	8 – 35	5 – 17	1 – 12	<3
d (0.5) [µm]	45 – 180	35 – 95	20 – 50	2 – 8
d (0.9) [µm]	130 – 370	100 – 220	50 – 120	8 – 18

The products are not tested on regular basis on functionality-related characteristics.

Product information

Product name	Kollidon® CL	Kollidon® CL-F	Kollidon® CL-SF	Kollidon® CL-M
Compendial name	Crospovidone			
CAS number	9003-39-08			
Retest period	36 months			
Quality and Regulatory	■ USP-NF, Ph. Eur., JP monographs compliant ■ IPEC-PQG GMP for Excipients			
Article numbers	50000695	53216545	52595650	51928647
Packaging size	40 kg	30 kg	30 kg	30 kg
Sample article number	50347948	50539226	50348145	50348144
Sample size	0.5 kg	0.25 kg	0.25 kg	0.25 kg P
Certified	Halal and kosher	Halal and kosher	Halal and kosher	Halal



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