

EMBOCAPS®

AP60

Delayed Release
Acid Protection



embo
caps

EMBOCAPS® AP60

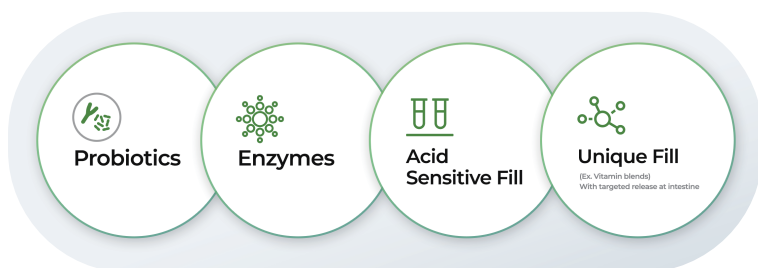
Acid Protection Capsule for Delayed Release

EMBOCAPS® AP60 is a delayed release capsule comprised of a patented combination of hypromellose and pectin which has acid protective characteristics in low pH environment (e.g. stomach), and fast dissolving characteristics in neutral to high pH environments (e.g. intestine). Regular immediate release capsules disintegrate within 15 minutes in the stomach. However, for special ingredients targeted to reach the colon or pH sensitive fill materials, the capsule shell must survive the harsh conditions encountered in the upper part of the gastrointestinal (GI) tract, such as the acidic environment in the stomach and the exposure to bile salts in the small intestine while effectively disintegrating in the lower GI. EMBOCAPS® AP60 is a cost effective, single step, delayed release technology.

Benefits of Hard Capsule Encapsulation using EMBOCAPS® AP60

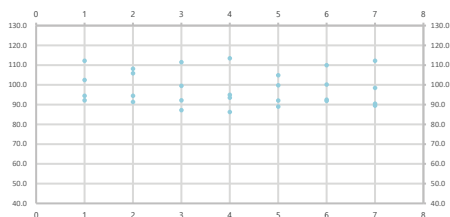
- ✓ Cost effective: No need for additional coating or other processes
- ✓ Low moisture content. Ideal for hygroscopic fills.
- ✓ Suitable for powders and liquids
- ✓ Fully customizable: Capsule sizes, colors and printing

Suggested Applications

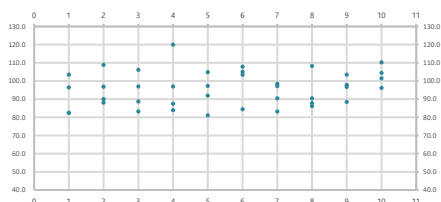


AP60 Disintegration Result Distribution Graph

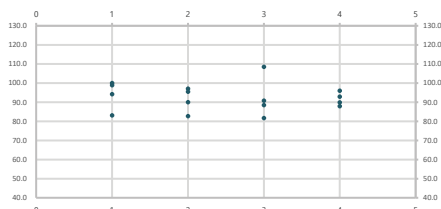
AP 60 Size #00



AP 60 Size #0



AP 60 Size #1



The graphs on the left illustrate the disintegration test results for the most popular sizes of AP60. The data uniformly indicate that disintegration begins after 60 minutes across all batches. Notably, the longest disintegration time recorded was 120.

The New EMBOCAPS® AP60:

- Approved for both nutraceutical and pharmaceutical applications
- No shellacs, Phthalates for coatings
- Technology is built right into the capsule shell
- Exclusive to EMBOCAPS®

