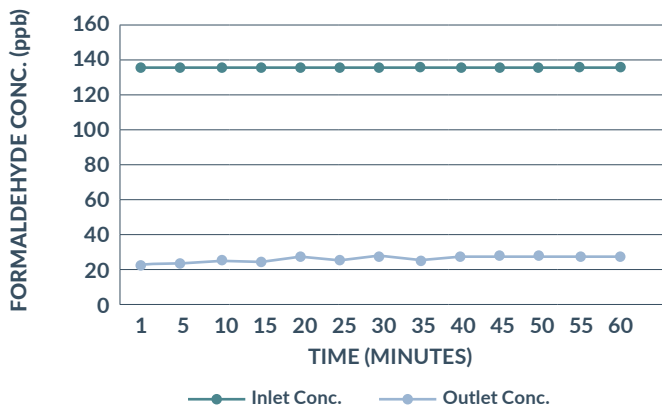


UNIQUE VALUE PROPOSITION - CARULITE® 400 POWDER CATALYST

Formaldehyde Removal Indoor Air Purification

VALUE PROPOSITION 1

CARULITE® 400 CATALYST 145.2 TEST



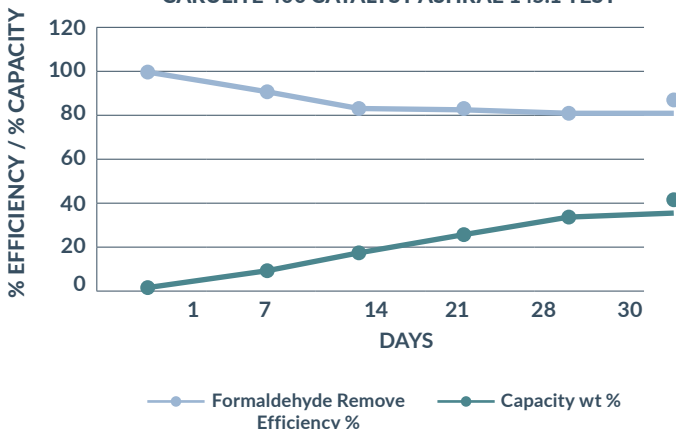
The CARULITE 400 catalyst demonstrated >79% formaldehyde abatement with single pass at 0.7 m/s face velocity.

Enables high formaldehyde destruction at ambient temperature with single pass at high velocity.

BENEFIT: The CARULITE 400 catalyst enables formaldehyde destruction with no by-product formation at ambient temperature, imparts significantly higher breakthrough efficiency compared with adsorbent medias, and helps achieve lower cost of ownership by mitigating the need to consistently replace VOC filters in air purifiers

VALUE PROPOSITION 2

CARULITE 400 CATALYST ASHRAE 145.1 TEST



The CARULITE 400 catalyst adhered well with polyester 80 lbs frate and demonstrated no loss of catalyst coating at a high face velocity.

Imparts high formaldehyde destruction efficiency over longer duration compared with adsorbent medias.

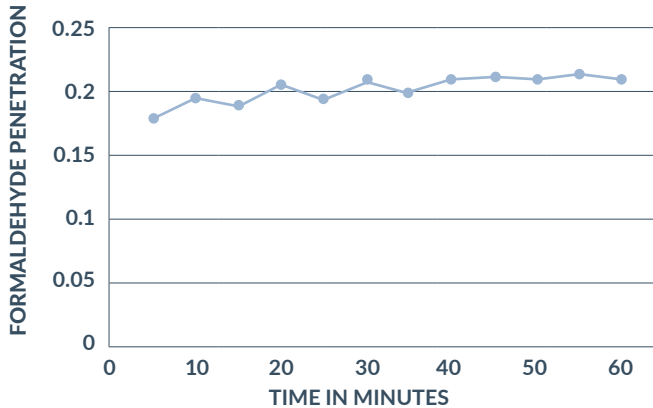
Benefit: The CARULITE 400 catalyst demonstrated high formaldehyde removal capacity (~35%) per media mass compared to removal capacities of previously tested sorbent materials (3~5%) hence provides opportunities to reduce cost of ownership against sorbent-based filters which have shorter replacement cycles.





VALUE PROPOSITION 3

CARULITE® 400 CATALYST ASHRAE 145.2 TEST



The CARULITE 400 catalyst demonstrated consistent high formaldehyde removal efficiency >80% for 30 days evaluation.

The CARULITE 400 catalyst can be coated on different filter substrates viz. (foam, nonwoven, ceramic, and metallic) without loss of performance.

Benefit: The CARULITE 400 catalyst was coated on 110 GSM polyester substrate during ASHRAE 145.2 test. The test showed consistent formaldehyde penetration throughout the test hence demonstrated no loss of catalyst coating at high face velocity and imparted high formaldehyde destruction efficiency.



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