

Save on Operation Costs with VSi's Parylene C Dimer

VSi Parylene C Dimer produces coatings in up to 39% less time.



HIGHER PURITY
SHORTER COATING TIME
LOWER OPERATING COSTS

Parylene C is a popular choice as one of the fastest depositing dimers on the market, but unreported parylene variants can significantly impact deposition rates. Using highly-reliable GCMS purity testing, **VSi offers the best transparency on purity on the market.**

i Learn more about the importance of purity in C Dimer on the next page.

Parylene C Dimer Symmetrical Dichloro Paracyclophane


PURITY TEST	HPLC PURITY	GCMS PURITY	DEP. RATE (µm/min)
VSi Dimer	99%	97%	0.070
Competitor Dimer	99%	85%	0.043

The chart above compares the results of independent, third-party Gas Chromatography-Mass Spectrometry (GCMS) testing against self-reported High Pressure Liquid Chromatography (HPLC) testing of VSi dimer and one of the most popularly-selling dimer brands.

Discover the benefits of switching to VSi C dimer with a free dimer analysis.

Discover how VSi dimer compares to your parylene dimer *before you switch* with our free head-to-head dimer analysis. Contact us today to get started.

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The Importance of Purity in Parylene C Dimer

Higher Purity
Shorter Coating Time
Lower Operating Costs

Why is Parylene C Purity so important?

Parylene C offers the most popular and cost-effective route to parylene protection. This is due to the unique, molecular structure of parylene C that allows it to achieve effective barrier protection faster than all other popularly used parylene variants.

Unfortunately, unreported parylene variants commonly found in parylene C dimer significantly dilute deposition speed and processing benefits. As a result, the quality of the manufacturing process to produce pure parylene C, symmetrical dichloro paracyclophane, is critical to speed performance.

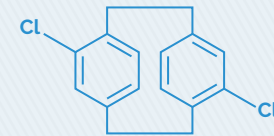
Testing C Dimer for its true purity

The most commonly used method for testing parylene purity is **High Pressure Liquid Chromatography (HPLC)**. While this is effective at measuring the presence of non-parylene material within a dimer, it does not distinguish between parylene variants, which can slow the deposition speed of parylene C.

Gas Chromatography-Mass Spectrometry (GCMS) offers a greater level of detail than HPLC by measuring the proportion of individual parylene variants present in dimer to determine purity at the individual parylene variant level. At VSi, purity is exclusively reported at the transparent GC-MS level to guarantee consistent and repeatable quality parylene C dimer.

PARYLENE C

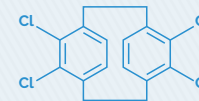
The unique chemistry of parylene C produces uniform and accelerated deposition behavior.



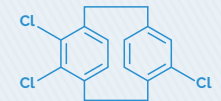
Symmetrical Dichloro Paracyclophane

PARYLENE VARIANTS

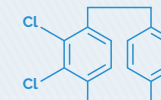
Produced in the dimer manufacturing process, variants dilute parylene C's desirable deposition behavior



Tetrachloro Paracyclophane



Trichloro Paracyclophane



Unsymmetrical Dichloro Paracyclophane

**CONTACT US FOR A
FREE DIMER ANALYSIS.**

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