

## CTP™ Series Catalysts

CTP™ series catalysts are the carbon supported palladium (Pd/C) catalysts used for hydropurification of terephthalic acid. CTP-I™ and CTP-II™ catalysts were commercially put into industrial use in 1996 and 1999, respectively. CTP-III™ catalyst has been commercialized since 2002 when it was successfully employed in the 270KTA plant of SINOPEC Shanghai Petrochemical Company. The catalyst service life for CTP-III™ has reached 44t PTA/(kg catalyst) much higher than 31t PTA/(kg catalyst) for CTP-II™.

Physical properties and commercial performance of CTP-II™, CTP-III™ and CTP-IV™

Type	CTP-II™	CTP-III™	CTP-IV™
Appearance	Coconut film	Coconut film	Coconut film
Pd content, %wt	0.47~0.53	0.48~0.52	0.48~0.52
Pd content after washing, %wt	≥0.45	≥0.45	
Fine content, %	≤1	≤1	≤0.6
Specific surface area, m <sup>2</sup> /g	900~1200	1000~1300	1000~1250
Attrition loss, %wt	≤1.5	≤1.0	≤1.0
Average strength, N/granule	≥40	≥40	≥42
Particle size distribution (4~8 mesh), %	≥93	≥95	≥96
Bulk density, g/cm <sup>3</sup>	0.43~0.50	0.43~0.50	
Conversion of 4-CBA, %	≥98.5	≥99	
Sulfur content, ppm	≤400	≤400	≤100
Iron content, ppm	≤300	≤300	≤100
Copper content, ppm	≤40	≤40	≤20

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