

# Comparing Ultra ALLOY® Metal Capillary Column with Fused Silica Capillary Column

	Ultra ALLOY®	Fused Silica
Inertness	Excellent	Excellent (absorption of amines in trace region)
Maximum Temperature (Dimethylpolysiloxane)	420°C (450°C for Dexsil300GC)	320°C (Susceptible to breakage above this)
Contamination Resistance	4 times higher than FS (Difference in inner surface area)	FS:1 Susceptible to outer wall breakage
Mechanical Strength	High (metal)	
Price	Almost the same as FS Less than FS	

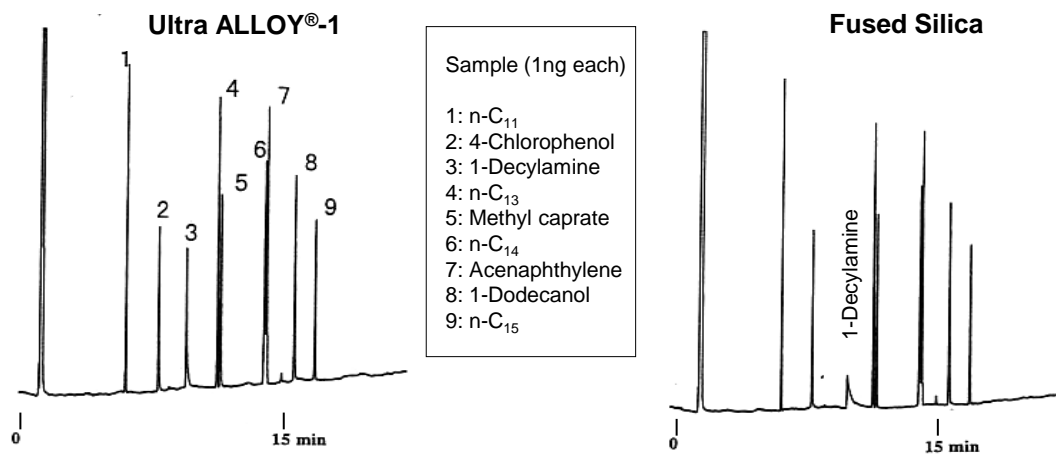


Fig.1. Inertness of Ultra ALLOY® and Fused Silica Capillary Columns

Dimethylpolysiloxane, 15m (0.25mm i.d.) 0.1µm, 60 ~ 5°C/min ~ 160°C  
Split injection (1/80), Amount of sample injected = 1 ng each

**Keywords :** Ultra ALLOY, Fused Silica, Comparison of Inertness and Prices

**Products used :** Multi-functional pyrolyzer, UA-1

**Applications :** General Analysis

**Related technical notes :**

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