

# Sofnocat™ 514



Sofnocat™ 514 are highly active precious metal catalysts, formulated for ambient temperature oxidation of unwanted contaminants in breathable gases.

## Applications

Sofnocat™ 514 removes harmful and unwanted gases from a variety of applications.

Specific uses include:

- Conversions of carbon monoxide in breathing gas filters
- Removal of hydrogen within enclosed environments
- Abatement of volatile organic compounds (VOCs)
- Obtaining ultra high purity carrier gases for electronic component manufacture

## Properties

Sofnocat™ 514 technology combines promoted platinum, palladium and tin oxide, with unique support chemistry, to produce a highly active and effective oxidation catalyst.

Properties include:

- Water tolerance
- Low temperature performance
- High mechanical strength
- Low breathing resistance

## Specifications

Grade		514
Form		supported beads
Size	mm	2-5
Density	g/cm <sup>3</sup>	>0.85
Moisture	H <sub>2</sub> O%	<10.0

## Packaging

All grades of Sofnocat™ 514 are available in the following packaging options:  
1kg airtight polypropylene container



## Performance

Contaminant	Conc (ppm)	Temp (°C)	Residence time (S)	Typical Conversion (%)
Carbon Monoxide (CO)	100	20	0.1	>50
	100	20	0.2	>67
	100	20	0.3	>80
	1000	20	3	>95

Note: Hydrogen removal efficiency is not routinely measured, however the half life is in the order of minutes. Sofnocat™ 514 can be successfully used to control hydrogen liberated during battery charging duty where long contact times are usually acceptable.

## Quality

Molecular Products Ltd's aim is to manufacture chemical products which satisfy completely the needs of our customers. All products are rigorously tested to ensure conformance to the specification. Our activities comply to the requirements of ISO 9001.

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