ChemiSorb 2720 Specifications

Sample Parameters

Active Gas Volume:
- Minimum: 0.001 cm^3
- Maximum: Greater than 10 cm^3

Active Specific Volume
- Minimum: 0.0001 cm^3/g
- Maximum: Greater than 20 cm^3/g

Surface Area:
- Minimum: 0.2 m^2
- Maximum: 199.9 m^2

Specific Surface Area:
- Minimum: 0.02 m^2/g
- Maximum: Limited only by weighing of sufficiently small sample

Pore Volume:
- Minimum: 0.0001 cm^3
- Maximum: 0.15 cm^3

Sample Size: Up to 1 cm^3 diameter x 3 cm^3 length

Sample Ports: One dedicated sample port and one dedicated analysis port

Throughput:
- Active Volume: Depends on injection steps; typically 1 to 2 hours per sample
- Surface Area: Typically 12 minutes per sample
- Total Pore Volume: Typically 45 minutes per sample

Preparation Temperature: 35 to 400 °C with heating mantle

Accuracy / Reproducibility

Active Volume:
- Low and Moderately Low: Typically better than ± 2% with ± 0.5% reproducibility
- High: Typically better than ± 1.5% with ± 0.5% reproducibility

Surface Area:
- Low and Moderately Low: Typically better than ± 3% with ± 0.5% reproducibility
- High: Typically better than ± 2% with ± 0.5% reproducibility

Supplies

Gas: Ammonia, carbon monoxide, hydrogen, nitrous oxide, and oxygen. Mixtures, with helium, of nitrogen, argon, krypton, ethane, n-butane, and other non-corrosive gases. A mixture of 30% N_2 and 70% He is recommended for single-point analyses. Mixtures of He and approximately 5, 12, 18, and 24% N_2 are suggested for multipoint use.

Coolant: Liquid nitrogen or argon, solvent slush baths, ice water as appropriate for adsorbate

Exposed Materials

Sample Tube: Quartz (Chemisorption); Borosilicate (Physisorption)

Exposed Materials: Stainless steel, borosilicate glass, Buna-N, rhenium passivated tungsten filament, PEEK, Teflon, nickel, silicone (septum). Brass and copper for inert gas paths.

Environment

Temperature: 15 to 35 ºC (59 to 95 ºF) operating;
0 to 50 ºC (32 to 122 ºF) storing or shipping

Humidity: 20 to 80% relative, noncondensing

Electrical

Voltage: 100, 120, 220 or 240 VAC ± 10%

Frequency: 50/60 Hz

Power: 1.25 A (100/120 VAC)
0.75 A (220/240 VAC)

Physical	**Height:**	53 cm (20.9 in.)
	Width:	46.5 cm (18.3 in.)
	Depth:	30.5 cm (12 in.)
	Weight:	18 kg (40 lbs)

In keeping with a policy of ongoing product improvement, specifications are subject to change without notice.

micromeritics®

The Science and Technology of Small Particles™

www.micromeritics.com

272/42701/01
Rev-