

Blue Silica Gel

Material name:	Blue silica gel. Small porous, Blue indicating
Brand name:	Minipac, Wisepac®, Wisesorb®, Wisemini®, Wiseview, Wisycle, Wistrip, Wisecap.
Material Description:	Glassy, hard, irregular shaped granules with a very high purity of approx. 99% SiO ₂ (dry basis) and an internal surface area of approx. 800m ² /g. Because of its very large surface area Silica gel exhibits a high adsorption for water vapour. Blue (Indicating) silica gel contains 0.3 – 0.4% of Cobalt (as Co). The blue granules change color to pink when saturated and exhausted. The change of color is reversible. The material changes color back to blue when being reactivated. Blue (indicating) silica gel conforms to <u>US MIL-D-3716A, Type IV, Grade H; BS3523.</u>
Formula:	SiO ₂ · n(H ₂ O) – amorphous form of silica
CAS-Nr.:	7631-86-9 (Silica) 7646-79-9 (CoCl ₂)
Physical Characteristics:	Typical water vapour adsorption capacity at 25°C at 20% relative humidity ≧ 10.0% at 40% relative humidity ≧ 20.8% at 80% relative humidity ≧ 31.2% Loss on ignition (120°C) (on dry basis) max. 3% Bulk density ≧ 780 PH value 6-7 Specific resistance ≧ 1,500
Standard grain Size:	1.0 – 2.0 mm, 1.0 – 3.0 mm, 2.0 – 4.0 mm, 4.0 – 8.0 mm other special gradings on request.
Applications:	Blue (Indicating) Silica gel is a desiccant intended for the removal of moisture from air, other gases, and liquids by static and dynamic means. The material is impregnated with an indicator (Cobalt) and should be used whenever a visual indication of degree of saturation of the desiccant is required. The temperature at reactivation should not exceed 110°C
Packaging	Packaged from 0.5 gram up to 500 grams by paper or nonwoven; airtight in PE barriers and carton.
Handling	Silica gel desiccant must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used at continual exposure to extensive dusting.
Notes:	Any details of application possibilities do not free the purchaser from the obligation of performing his own tests on the material supplied by the seller in order to determine their suitability for the intended processes and purposes. Application, use and processing of the material cannot be controlled by the seller and are thus the sole responsibility of the purchaser.