

Specs #: DSXG51	Version #: 004	Issue date: 2012.03.01
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Ziboxan[®] IND80 Specification

Ziboxan[®] IND80-Xanthan Gum Industrial Grade

DESCRIPTION:

Ziboxan[®] IND80 is an industrial grade xanthan gum produced by fermentation of a carbohydrate with Xanthomonas campestris. It is suitable for use in painting, printing, fire control, dyeing, textile, etc. It is an industrial application and is suitable for use as a stabilizer, thickener and suspending agent.

SPECIFICATION:

Properties	Specifications
Appearance	cream colored powder
Viscosity (1% solution in 1% KCL)	1200-1800mPa.s(c)P
pH (1% solution)	6.0-8.0
V1/V2	1.02-1.45
Loss on Drying	max. 13%
Ash	max. 13%
Particle size	100% through 60mesh (250micro) min. 95% through 80mesh (180micro)

PACKAGE:

Multiple paper bags of 25kg net each. Custom packaging available.

STORE:

Sealed and stored in cool dry place.

QUALITY AND SAFETY ASSURANCE:

Ziboxan[®] IND80 production is controlled under certified quality system ISO9001 and product safety is ensured by an established safety system.

NOTE:

CAS NO. 11138-66-2

TEST METHOD:

Full details and test methods are available on request.

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1. **Appearance**

By visual.

2. **Viscosity (1% Solution)**

Prepare a 1% salt solution of product by slowly adding a dry blend of 3.0 g of product and 3.0 g of potassium chloride to 250 ml of distilled or deionized water in a 400 ml beaker, while stirring at 800 rpm using a low-pitched propeller type stirrer. Add an additional 44 ml of distilled or deionized water, rinsing the walls of the beaker, and continue stirring at 800 rpm for 2 hours. At the end of this period, adjust the temperature of the solution to 25°C (77°F), stirring by hand in a vertical motion to eliminate any layering effects. Measure the viscosity immediately using Brookfield LV viscometer at 60 rpm, with spindle no. 3, at 25°C.

3. **pH**

Measure the pH at 25°C by testing a solution prepared as above, but omitting the potassium chloride, using a pH meter.

4. **Loss on Drying**

Spread 2-5 g product evenly on a pre-dried tared watched glass and weigh accurately. Dry in an oven at 105 ± 1°C for 2.5 hours. Cool in a desiccator and re-weigh.

5. **Ash**

Using a suitable furnace, ash 3 g of product, pre-dried at 105 °C for 4 hours, in a platinum crucible at 650 °C until no carbon remains.

6. **Particle Size**

Sieve 20 g product on the specified British Standard Screens for 10 minutes each screen. Record the weight of product remaining on each screen and calculate the percentage which passes through each specified screen.

7. **V1/V2**

V1/V2 may be determined by FCC V for xanthan gum.