

**Ticagel® GC-564 S (TGEL GC-564 S)**

Ticagel® GC-564 S is a gelatin replacer for use in gelatin-free gummy candy. A usage level of 3.9% replaces 6.4% gelatin 275 Bloom, but usage range is 3.7-4.2% by weight. It is processing friendly and can be added or activated the same way as gelatin using 180°F water and activation time of 10 minutes. At depositing Brix of 78°, it has a slightly higher viscosity than gelatin between temperatures of 203-160°F (95-70 C) but it can still be deposited with ease. Like gelatin it is best deposited at the higher end of this temperature range. Ticagel GC-564 S gives a softer, more chewy gummy candy compared to gelatin but yields a springiness or elasticity more comparable to fruit slice texture. It has the same melting point as gelatin gummy of 55 C when compared side by side in lab trials.

**Chemical and Physical Properties**

	Min.	Max.	
Flavor (Typical)	Characteristic		-
Gel Strength (3.0%, 1CM2 probe)	330	850	gcm
Moisture (Infrared)		14	%
Odor (Typical)	Characteristic		-
pH (viscosity solution)	5	7	pH
Powder Color (Visual)	Off White-Light Tan		-
Texture (Qualitative)	Free Flowing Powder		-

**Microbiological**

	Min.	Max.	
Aerobic Plate Count (AOAC 988.18, 2.5g)	0	3000	cfu
Combined Yeast and Mold (BAM)	0	1000	/g
E. coli (AOAC 988.19)	<3 MPN		/g
S. aureus (BAM)	<10 cfu		/g
Salmonella - 375g (AOAC 2013.01 )	Negative /375g		-
Total Coliforms (AOAC 966.24)	<3 MPN		/g

**Screen Test**

	Min.	Max.	
USS#80 Mesh Through	55		%

**Nutritional Data/100g**

Calories	183.80
Total Fat (g)	0.08
Saturated Fat (g)	0.00
Trans Fat (g)	0.00
Monounsaturated Fat (g)	0.00
Polyunsaturated Fat (g)	0.00
Cholesterol (mg)	0.00
Total Carbohydrates (g)	87.83
Dietary Fiber (2016) (g)	6.50
Total Sugars (g)	3.50
Includes Added Sugars (g)	0.00
Protein (g)	0.00
Water (g)	10.29
Ash (g)	2.89
Vitamin A (IU)	0.00
Vitamin D (mcg)	0.00
Vitamin C (mg)	0.00
Sodium (mg)	2003
Calcium (mg)	87
Iron (mg)	0.45
Potassium (mg)	135.65

Disclaimer: Data is obtained from analytical and calculated values and is reported on an "as is" basis. In accordance with the 2016 Nutrition Facts Label regulations all 'non-digestible carbohydrates' (NDC's) have been calculated as 2 kcal / gram, opposed to 4 kcal. Only the currently approved list of NDC's considered by the FDA to be dietary fiber are included in the dietary fiber calculation.

\*ND – these values have not been determined.

**Certification**

Kosher  
Halal

**Packaging and Storage**

Standard Packing	50# Bags, 2,000# per pallet
Storage & Handling	Each container is identified with the product name and lot number. Store in cool dry place for maximum shelf life.
Minimum Qty	50.00 lb

**Shelf Life**

Shelf-Life	2 years
Lead Time	15 business days

**Usage Levels**

Typical Usage Level	2.0% to 3.0%
Solubility	Partially cold water soluble, for full hydration heat to 180°F or higher
Suggested Uses	gelled candy, gelatin replacer, agar, confection

**Regulatory Data**

CAS #	9002-18-0, 68584-86-1, 9000-69-5, 9004-32-4, 57-50-1, 6132-04-3
E #	406, 1440, 440, NA, 466, 331
HS Tariff #	2106.9
Country of Origin	Made in USA from domestic and/or imported ingredients
USDA (BE) Status	Not BE
United States	
FDA Regulation	21 CFR 184.1115, 172.892, 184.1588, 184.1854, 182.1745, 184.1751
Label Declaration	Agar, Modified Corn Starch, Pectin (standardized with sucrose), Cellulose Gum, Sodium Citrate

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