



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### XYLITOL NF FCC

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Written By	Rev. No.	Approved By
XYLCCP	2902	87-99-0	August 18, 2006	MPR	MPR	Original	RVK

<b>CHARACTERISTICS:</b>	A white free flowing crystalline powder that is soluble in water and partially soluble in alcohol. It has a sweet taste and produces a cooling sensation in the mouth.
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<b>SPECIFICATIONS:</b>	Identification	
	A	To pass test
	B	To pass test
	Assay (anhydrous basis)	98.5-101.0%
	Other polyols	1.0% max.
	Reducing sugars (as glucose)	0.2% max.
	Water	0.3% max.
	Residue on ignition	0.1% max.
	Melting range	92.0-96.0°C
	Heavy metals	10 ppm max.
	Lead	1 ppm max.
	Nickel	2 ppm max.
	Arsenic	3 ppm max.
	Organic volatile impurities	Meets requirements
	Particle size	
	Thru a 14 mesh	100%
	Total plate count	100/g max.
Yeast and mold	10/g max.	
Total coliforms	Negative	

<b>PACKAGING:</b>	25 kg Kraft Paper Bag with PE liner, palletized 40 bags per pallet
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<b>APPLICATIONS:</b>	Used as nutritive sweetener in foods. Xylitol helps prevent tooth decay by inhibiting plaque. It has 75% fewer carbohydrates and 40% fewer calories than table sugar. This can be used in tooth care products and chewing gums.
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<b>OTHER:</b>	<b>Kosher: Star-K.</b> Xylitol is a naturally occurring 5-carbon sugar alcohol. It is found in many fruits and vegetables and is even produced by the human body as an intermediate in the normal metabolism of glucose. It is manufactured from xylan hemicellulose sources such as birch and other hardwoods as well as from corn. Xylitol is the sweetest of the polyols and is just as sweet as sucrose. It fights dental decay. Several clinical studies performed in populations with either high or low cavity activity show that supplementing a normal diet with regular consumption of xylitol sweetened chewing gum (more the twice a day) is of clear benefit to the teeth. Even in conditions where all modern prophylaxis methods were used, cavity active children derived additional benefit from using xylitol regularly. In summary, regular use of a sugar-free gum which contains a high concentration of xylitol is beneficial to the teeth.
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