

SCOPE This Sudanese standard applies to Cleaned Grade gum arabic from Acacia senegal var. senegal

Gum arabic. hashab and Kordofan gurn

DEFINITIONS

Gum arabic Cleaned gum is obtained from the stems and branches CT Acatia senegal var. seneoal (L). Willdenow (fam. legurminosae). It consists mainly of salts of an acidic arabino-galactan protein complex which on hydrolysis yields galactose, arabinose, rhamnose, glucuronic acid and 4- methoxy glucuronic acid

FUNCTIONAL USES Emulsifier, stabilizer, thickening and encapsulating agent and some other general and technical applications

PHYSICAL CHARACTERISTICS it's highly soluble in water, gives up to 50% solution and insoluble in ethanol Solubility Hydrolysis products Passes test

STANDARD REQUIREMENTS

CHEMICAL CHARACTERISTICS

LOSS ON DRYING NOT MORE THAN 15% TOTAL ASH NOT MORE THAN 4%. NITROGEN CONTENT

PROTEIN CONTENT ARSENIC NOT MORE THAN 3MG/KG

(1) to MICROBIOLOGICAL CRITERIA STORAGE Preferably to be stored under clean, cool and dry conditions, in a properly constructed warehouse

LEAD NOT MORE THAN 10MG/KG - HEAVY METALS NOT MORE THAN 40MG/KG

- STARCH AND DEXTRIN

TANNIN - BEARING GUM FORMATION OF A BLACK PRECIPITATE INDICATES THE PRESENCE OF TANNIN

SPECIFIC ROTATION
(X)ID (-22°) TO (-34°)

d paper bag lined with polyethylene capacitv 50 — 25 kg

PACKAGING

ABELLING Should be clear PRODUCT NAME SHELF LIFE

Unlimited under the appropriate storage conditions mentioned in section 9

Afro

TECHNICAL COMMITTEE

Sampling and testing should be carried out according to SDS 145, 146, 147. 148, 149. 150, 151, 152, 153. 154, 155, 166. 157,158: 159 and 160. TESTING

ARABIC S GUM KIBBLED

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This Sudanese standard applies to kibbled gum arabic from Acacia senegal var. senegal DEFINITIONS

Gum arabic kibbled gum is the crushed form of the dried exudate obtained from the stems and branches of Acacia senegal var. Senegal (I) Willdenow (fam. leguminosea) Lit consists mainly of salts of an acidic arabino-galactan protein complex which on hydrolysis yields galactose, arabinose, rhamnose, glucuronic acid and 4- methoxy glucuronic acid



Emulsifier, stabilizerm thickening and encapsulating agent and some other general and technical applications

PHYSICAL CHARACTERISTICS It is highly soluble in water, gives up to 50% solution and insoluble in ethanol Hydrolysis products

CHEMICAL CHARACTERISTICS

STANDARD REQUIREMENTS

FUNCTIONAL USES

LEAD NOT MORE THAN 10N LOSS ON DRYING NOT MORE THAN 15% - HEAVY METALS NOT MORE THAN 40MG. TOTAL ASH NOT MORE THAN 4% STARCH AND DEXTRIN NITROGEN CONTENT SPECIFIC ROTATION [A)ID (-22°) TO (-34°) PROTEIN CONTENT 1.58 TO 2.7% (N x 66)

ARSENIC NOT MORE THAN 3MG/KG

Preferably to be stored under clean, cool and dry conditions: in a properly constructed warehouse

- TANNIN - BEARING GUM PASSES TEST

PACKAGING Multi-layered paper bag lined with polyethylene. capacity 50 — 25 kg

MICROBIOLOGICAL CRITERIA

Sampling and testing should be carried out according to SDS 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157,158, 159 and 160. *Test carried out on dry basis

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ARABI GUM GUN

DESCRIPTION Gum talha is a yellowish-brown solid. On drying, its nodules and tears are brittle and can easily break into siftings and dust. It is odourless and has a stringent taste. It may contain extraneous materials such as sand and pieces of bark

COMMERCIAL GRADES

PURITY LOSS ON DRYING - TOTAL ASH NOT MORE THAN 4%. NITROGEN CONTENT PROTEIN CONTENT

ARSENIC

MICROBIOLOGICAL CRITERIA 1- Salmone//a sp. Negative per test 2- 7@.2 E.coli Negative in lgm

LABELLING Should be clear and in PRODUCT NAME

Sampling should be carried out according to Sudanese standard SDS No. 145 1- Testing should be carried out according to Sudanese standards SDS No. 146, 147, 148, 149, 152, 153, 154, 155, 157, 158 and 528.

Unlimited under the appropriate storage conditions mentioned in section 10

Jute, polypropylene or polyethylene lined multi-layer paper bags of 25 - 50kg capacity, or as agreed, upon, between customer and supplier

2- Test carried out on dry weight basis 3-"Nitrogen conversion factor (NCF) a to Anderson, D.M.W. (1986)

SCOPE This Sudanese standard applies to the dry exudate obtained from the trees of Acacia seyal var. seyal DEFINITIONS Gum talha is the dry exudate obtained from the stems and branches of Acacia seyal var. seyal. Del. (fam. Leguminosae). It consists mainly of salts of an acidic arabino-galactan protein complex which on hydrolysis galactose, arabinose, rhamnose, glucuronic acid and 4-O- methoxy glucuronic acid. Acacia seya/gum

 Spray Dried Grade, SDS, No. (2895).
 Clean Grade, SDS, No. (2896).
 Kibbled Grade, SDS, No. (2892).
 Mechanical Powder Grade, SDS,
 Dust Grade, SDS, No. (2894) FUNCTIONAL USES Emulsifier, stabilizer, thick nd encapsulating agent, and some other general and technical applications CHARACTERISTICS IDENTIFICATION 1-Solubility It is highly soluble in water, gives up to 50% solution and insoluble in ethanol. 2- Hydrolysis products Passes test. 3- Specific rotation {.}D 25C (+ 45) to (+ 60)

LEAD NOT MORE THAN 101

- HEAVY METALS NOT MORE THAN 40MG/KG

STARCH AND DEXTRIN TANNIN - BEARING GUM FORMATION OF A BLACK PRECIPITATE INDICATES THE PRESENCE OF TANNIN

Should be stored under clean, cool and dry conditions, in a properly constructed warehouse

STORAGE

COUNTRY OF ORIGIN SEASON OF PRODUCTION SAMPLING

ORGANIZATIONS PARTICIPATING IN THE TECHNICAL COMMITTEE NO. 4 ARE REPRESENTED BY

TECHNICAL COMMITTEE

1. UNIVERSITY OF KHARTOUM.
2. FOOD RESEARCH CENTER.
3. THE GUM ARABIC COMPANY.
4. KHARTOUM GUM ARABIC PROCESSING COMPANY.
5. MINISTRY OF INDUSTRY AND INVESTMENT.
6. MINISTRY OF AGRICULTURE AND FORESTRY — MEMBER NOT NOMINATED 7. SUDANESE STANDARD AND METROLOGY ORGANIZATION

LABELLING Should be clear and indicates Unlimited under the appropriate storage conditions mentioned in section 9