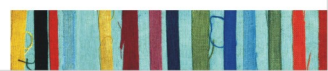


product catalogue

Textile Printing Thickeners & Food Gum Division





# Company Profile

## **a look in the past...**

To be committed, responsive, continuous, transparent and enduring is what it needs to be there for a long run. This is what can conclude by going through 5 decades of success trail of CALICA, a true gum processing conglomerate industry par excellence.

## **a look within...**

Making continuous efforts in market study for product performance and customer requirements, CALICA achieved major success and attained unique understanding of printing thickener technology. Over the decades the strategic initiatives and structural changes carried across the company helped re-draw its boundaries and increase its business potential.

## **a look at the product...**

CALICA has brought about a technological turn-around, within their production premises in recent years, by installing advanced manufacturing equipments and testing facilities. A full-fledged Research & Development centre managed by well known industry specialists is continuously engaged in developing and modifying the chemical properties of materials in order to ensure better performance and reduce production cost. They have the ability to match the most stringent quality standards that are demanded worldwide.

The full range of CALICA products has an unmatched combination of Quality & Cost. The products prove their worth in both, value & performance.

## **a look at the customer...**

Over the years we have procured as what can be termed as a "concrete" relationship with our customers. 'Once a customer-always a customer'. That is how CALICA has gained and maintained strong bonds. Our esteemed clientele spans the lengths of the globe with which we share a deep and committed relationship. The product Quality is equally complemented by company's Supply and Services.

## **a look into the future...**

Five decades today, and many more to come, CALICA, had taken long strides in causing phenomenal growth and development in gum processing. Apart from serving a majority of Indian textile printing units, CALICA products have captured global acceptance.

## Calfix CMT-80

### Description

Base:	Carboxyl Methyl Tamarind
Appearance:	Ivory Yellow Powder
Paste Appearance:	Ivory

### Properties

Solubility:	Cold water soluble
Ionic Attribute:	Anionic
pH:	9.5 to 11 [Alkaline]
Moisture %:	10 % maximum
Viscosity at 8% paste : [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	32000 to 35000 cps
Hydration Time:	After 25 to 35 minutes at high speed stirring
Preservation:	Eco-friendly preservation

### Preparation of Stock Paste

8 kg. 'Calfix CMT-80' + 92 kg. Water = 100kg. Total

#### Cold Preparation:

Add 8 kg. powder gradually in 92 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Retain stock paste over night for proper swelling of gum particles prior to its usage.

#### Hot Preparation:

For hot preparation of paste, use high speed stirrer for 15 to 20 minutes along with 4 to 5 hours of cooking for absolute swelling of gum particles. Bring temperature down by leaving paste overnight before use.

### Characteristics

Sharp and Leveled Prints	High Color Yield
Good Washing off Properties	Stable Viscosity
Quick Viscosity Development	Higher Coverage
Cost-effective	

### Recommended Application

Calfix CMT-80 is recommended to use with disperse dyes to print on polyester and polyester blended fabrics.

### Storage

Sealed bag under normal condition for 6 months.

### Packing

25 kg. Net. HDPE paper bag with PE liner.

[Specifications can be altered as per customer requirements]



## Calfix CMS-80

### Description

Base:	Carboxyl Methyl Starch
Appearance:	Ivory Powder
Paste Appearance:	Ivory

### Properties

Solubility:	Cold water soluble
Ionic Attribute:	Anionic
pH:	9 to 10.5 [Alkaline]
Moisture %:	10 % max
Viscosity at 8% paste : [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	22000 to 25000 cps
Hydration Time:	After 25 to 35 minutes at high speed stirring
Preservation:	Eco-friendly preservation

### Preparation of Stock Paste

8 kg. 'Calfix CMS-80' + 92 kg. Water = 100 kg. Total

Add 8 kg. powder gradually in 92 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Leave stock paste over night for proper swelling of gum particles prior to its usage.

### Characteristics

Sharp and Leveled Prints	High Color Yield
Good Washing off Properties	Stable Viscosity
Quick Viscosity Development	Cost-effective

### Recommended Application

Calfix CMS-80 is recommended to use with disperse dyes for printing on polyester and polyester blended fabrics.

### Other applications

As a wall paper adhesive  
As construction chemical addition in various plasters and paints.

### Storage

Sealed bag under normal condition for 6 months.

### Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

[Specifications can be altered as per customer requirements]



## Calfix CMG-30

### Description

Base:	Carboxyl Methyl Guar
Appearance:	Ivory Yellow Powder
Paste Appearance:	Ivory Yellowish

### Properties

Solubility:	Cold water soluble
pH:	6.5 to 7.5 [Neutral]
Moisture %:	10 % max
Viscosity at 3% paste: [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	22000 to 25000 cps
Hydration Time:	After 25 to 35 minutes at high speed stirring
Preservation:	Eco-friendly preservation

### Preparation of Stock Paste

3 kg. 'Calfix CMG-30' + 97 kg. Water = 100 kg. Total

Add 3 kg. powder gradually in 97 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Leave stock paste over night for proper swelling of gum particles prior to its usage.

### Characteristics

Excellent Color Yield	Sharp and Leveled Prints	Good Washing off Properties
Enhanced Penetration	Stable Viscosity	High Color Yield

### Recommended Application

Calfix CMG-30 is recommended to use with Reactive dyes for printing on polyester, cotton, rayon and blended fabrics.

### Storage

Sealed bag under normal condition for 6 months.

### Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

[Specifications can be altered as per customer requirements]

## Calfix MGA-35

### Description

Base:	Modified Guar Gum
Appearance:	Pale Yellow Powder
Paste Appearance:	Pale Yellowish

### Properties

Solubility	Cold water soluble
Preservation:	Eco-friendly preservation
pH:	9 to 10.5 [Alkaline]
Moisture %:	10 % max
Viscosity at 3.5% paste: [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	18000 to 22000 cps
Hydration Time:	After 30 to 40 minutes at high speed stirring

### Preparation of Stock Paste

3.5 kg. 'Calfix MGA-35' + 96.5 kg. Water = 100 kg. Total

#### Cold Preparation:

Add 3.5 kg. powder gradually in 96.5 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Retain stock paste over night for proper swelling of gum particles prior to its usage.

#### Hot Preparation:

For hot preparation of paste, use high speed stirrer for 15 to 20 minutes along with 4 to 5 hours of cooking for absolute swelling of gum particles. Bring temperature down by leaving paste overnight before use.

#### Characteristics:

Sharp and Leveled Prints	High Color Yield
Good Washing off Properties	Stable Viscosity
Quick Viscosity Development	

#### Recommended Application

Calfix MGA-35 is recommended to use with Disperse, Rapid, Acid, and Indigosol dye stuff for printing on polyester, cotton, rayon, acrylic and blended fabrics.

#### Storage

Sealed bag under normal condition for 6 months.

#### Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

[Specifications can be altered as per customer requirements]



## Calfix GA-8

### Description

Base:	Modified Guar Gum
Appearance:	Light Yellow Powder
Paste Appearance:	Light Yellowish

### Properties

Solubility:	Cold water soluble
Preservation:	Eco-friendly preservation
pH:	9 to 10.5 [Alkaline]
Moisture %:	10 % max
Viscosity at 8% paste: [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	35000 to 40000 cps
Hydration Time:	After 30 to 40 minutes at high speed stirring

### Preparation of Stock Paste

8 kg. 'Calfix GA-8' + 92 kg. Water = 100 kg. Total

#### Cold Preparation:

Add 8 kg. powder gradually in 92 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Retain stock paste over night for proper swelling of gum particles prior to its usage.

#### Hot Preparation:

For hot preparation of paste, use high speed stirrer for 15 to 20 minutes along with 4 to 5 hours of cooking for absolute swelling of gum particles. Bring temperature down by leaving paste overnight before use.

### Characteristics

Sharp and Leveled Prints	High Color Yield
Good Washing off Properties	Stable Viscosity
Quick Viscosity Development	Excellent Penetration

### Recommended Application

Calfix GA-8 is recommended to use with Acid, Disperse, Vat, Rapid, Acid Discharge, Disperse Discharge, Vat Discharge, and Indigosol dye stuff to print on polyester, silk, cotton, polyester-cotton, and polyester-rayon blended fabrics.

### Storage

Sealed bag under normal condition for 6 months.

### Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

[Specifications can be altered as per customer requirements]

## Calfix GN-10

### Description

Base:	Modified Guar Gum
Appearance:	Ivory Powder
Paste Appearance:	Ivory

### Properties

Solubility:	Cold water soluble
Preservation:	Eco-friendly preservation
pH:	6.5 to 7.5 [Neutral]
Moisture %:	10 % max
Viscosity at 10% paste: [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree Celsius]	28000 to 32000 cps
Hydration Time:	After 30 to 40 minutes at high speed stirring

### Preparation of Stock Paste

10 kg. 'Calfix GN-10' + 90 kg. Water = 100 kg. Total

#### Cold Preparation:

Add 10 kg. powder gradually in 90 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Retain stock paste over night for proper swelling of gum particles prior to its usage.

#### Hot Preparation:

For hot preparation of paste, use high speed stirrer for 15 to 20 minutes along with 4 to 5 hours of cooking for absolute swelling of gum particles. Bring temperature down by leaving paste overnight before use.

### Characteristics

Sharp and Leveled Prints	High Color Yield
Good Washing off Properties	Quick Viscosity Development
Enhanced Penetration	Excellent Penetration

### Recommended Application

Calfix GN-10 is recommended to use with Acid, Disperse, Vat, Rapid, Acid Discharge, Disperse Discharge, Vat Discharge, and Indigosol dye stuff to print on polyester, silk, cotton, polyester-cotton, and polyester-rayon blended fabrics.

### Storage

Sealed bag under normal condition for 6 months.

### Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

[Specifications can be altered as per customer requirements]





# Calfix Algi-44

## Description

Derivative:	Substitute of Sodium Alginate
Appearance:	Brown Powder
Paste Appearance:	Brownish

## Properties

Solubility:	Cold water soluble
pH:	6.5 to 7.5 [Neutral]
Moisture %:	10 % max
Viscosity at 4% paste: [spindle no.6, 20 RPM by Brook field viscometer model RVDV1 at 25 degree celsius]	22000 to 25000 cps
Hydration Time:	After 25 to 35 minutes at high speed stirring
Preservation:	Eco-friendly preservation

## Preparation of Stock Paste

4 kg. 'Calfix Algi-44' + 96 kg. Water = 100kg. Total

### Cold Preparation:

Add 4 kg. powder gradually in 96 kg. cold water drum with high speed stirrer for 25 to 35 minutes. Formation of lumps should be avoided by uniform powder insertion into water. Retain stock paste over night for proper swelling of gum particles prior to its usage.

### Hot Preparation:

For hot preparation of paste, use high speed stirrer for 15 to 20 minutes along with 4 to 5 hours of cooking for absolute swelling of gum particles. Bring temperature down by leaving paste overnight before use.

## Characteristics

Sharp and Leveled Prints	Excellent Color Yield
Good Washing off Properties	Superior Penetration
Quick Viscosity Development	Cost Effective against Sodium Alginate

## Recommended Application

Calfix Algi-44 is recommended to use with Reactive and Direct dyes to print on cotton, polyesters, silk, rayon, and blended fabrics.

## Storage

Sealed bag under normal condition for 6 months.

## Packing

25 kg. Net. HDPE laminated paper bag with PE lining.

Calica has developed a wide range of 'CALPRO' guar gum Powder.

## FOOD GRADE

Food grade guar gum is an emulsifier, thickener, and stabilizer approved for use in a wide range of foods, cosmetics, and pharmaceuticals. It is an odorless powder, which is available in different properties and granulometries depending on the desired viscosity.

### properties

Product Name	CALPRO FG-35C	CALPRO FG-45C	CALPRO FG-55C	CALPRO FGL-30
VISCOSITY - 1% (CPS)	3500 - 4000	4500 - 5000	5500 - 6800	2500 - 4000
MESH SIZE	200	200	200	100
GELATION	Non Gelling	Non Gelling	Non Gelling	Non Gelling
NATURAL	Yes	Yes	Yes	Yes
PLATE COUNT	5000 Max	5000 Max	5000 Max	5000 Max
MOLD & YEAST COUNT	500 Max	500 Max	500 Max	500 Max
COLIFORM	NEG	NEG	NEG	NEG
E. COLI	NEG	NEG	NEG	NEG
SALMONELLA /25gm	NEG	NEG	NEG	NEG
MOISTURE	Less than 12%	Less than 12%	Less than 12%	Less than 12%

### applications

<b>Bakery</b>	Improves texture, Increases shelf life, Improves Crumb Structure
<b>Ice creams</b>	Provides smooth and creamier texture. Prevents formation of ice crystals. Prevents quick meltdown.
<b>Processed Cheese</b>	Improves texture and Flavor, Stabilizer
<b>Soups</b>	Thickener, Stabilizer
<b>Pastry Ices</b>	Absorption of Free Water, Preventing Excessive Stickiness
<b>Dressing and Sauces</b>	Thickener, Emulsion stabilizer, Improves Flow Properties and Sauces
<b>Beverages</b>	Viscosity Controller, improves Body and mouth feel, Improves shelf life
<b>Meat</b>	Binder in Sausages, Absorbs free water, Improves Flow rate, prevents separation and migration

Custom made guar gum products are also manufactured, meeting various specifications depending on end applications of the buyer.





## INDUSTRIAL GRADE

Industrial application of guar gum includes paper industry where it is used as an additive giving denser surface to the paper used in printing. And in the explosive industry guar is mixed in Ammonium Nitrate, Nitroglycerine and Oil explosives, where it helps maintain the explosive properties of the product even in wet conditions. Guar gum is also consumed greatly as a top-hole drilling fluid.

### properties

Product Name	CALPRO CIG-30	CALPRO CIG-40	CALPRO CIG-50	CALPRO CIG-60
VISCOSITY 1% (CPS)	3000 - 3500	3500 - 4000	5000 - 5800	6000 - 6800
MESH SIZE	200	200	200	200
HYDRATION	Moderate	Moderate	Very Fast	Very Fast
GELATION	Non Gelling	Non Gelling	Non Gelling	Non Gelling
EMULSION POWER	None	None	None	None
NATURAL	Yes	Yes	Yes	Yes

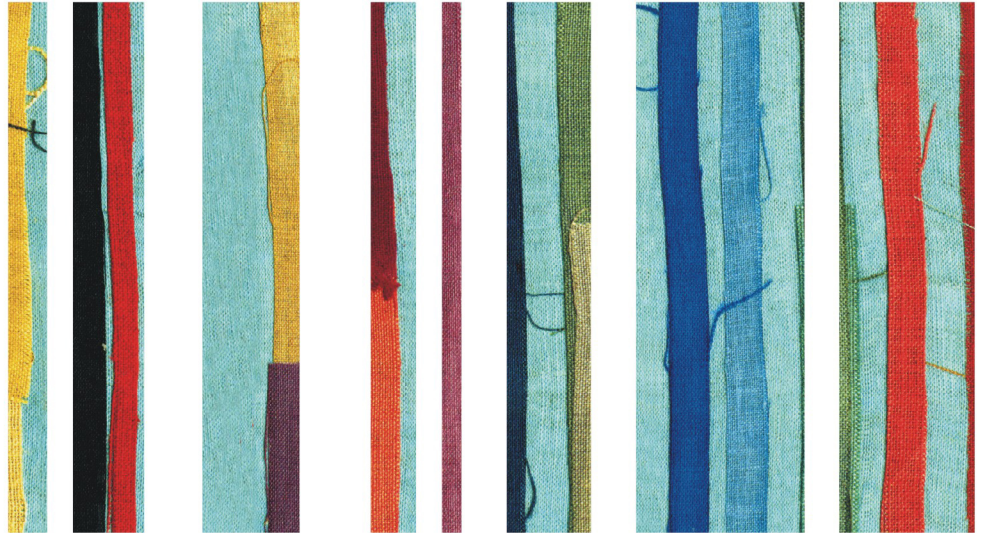
### applications

<b>Oil Well Drilling</b>	As fluid-loss controlling agent. As additives in fracturing fluids.
<b>Mining</b>	Concentration of Ores, Flocculation and Better recovery
<b>Cosmetics and Pharmaceutical Industry</b>	As a thickener. As a binder and also to disintegrate compressed tablets. As a mild laxative, soluble dietary Fiber.
<b>Paper Industry</b>	Used for improved sheet formation, increased bursting strength, increased fold strength and to get a better finish.
<b>Construction</b>	Waterproofing agent

All reasonable care has been taken to ensure information contained in this catalog is accurate at time of printing. However, since the results obtained depend upon operation condition, result may vary.







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