

WELL KNOWN MANUFACTURER OF CARBOXYMETHYL CELLULOSE (CMC) & POLYANIONIC CELLULOSE (PAC)...

QUALIFIED SUPPLIER OF GLOBAL COMPANIES...

EXPORTING OVER 40 COUNTRIES IN 5 CONTINENTS...

DENKIM
DENİZLİ KİMYA SAN. VE TİC.A.Ş.

Oil & Gas Drilling Grade CMC and PAC Products

PAC (Polyanionic Cellulose) and **CMC** (Carboxymethyl Cellulose) are water soluble cellulose derivative products utilized in drilling industry and used as performance-enhancer admixtures in oil&gas drillings (production) through their features such as film formation, filter cake at the borehole wall in order to minimize the water loss and to control the rheology of the drilling fluids.

CMC & PAC particularly maintain suspension of the mud which is made of dispersion of clay, barite and bentonite in water in drilling fluids and optimizes rheology of the fluid system.

As a classification, **DENCELL** refers to **Technical Grade** products, **DENCOLL** refers to Purified Grade products and **ECOPAC** refers to alternative quality products focused on price-performance. DENCELL and DENCOLL branded products are produced in API 13A standards.

	PAC LV	PAC ULV	PAC ELV
Apparent Viscosity	max. 40	max. 30	max. 20
Filtrate Vol. (mL)	max. 16	max. 16	max. 16
Active Matter	65-75		
Appearance	White to off white, free flowing powder		
Moisture	max. 8		
pH (1% sol)	8 - 11		
Starch Content	Absent		
Bulk Density	500 - 800		
Quality Standard	API 13A - ISO 13500		

	PAC LV	PAC ULV	PAC ELV	PAC R (HV)
Apparent Viscosity	max. 40	max. 30	max. 20	min. 50
Filtrate Vol. (mL)	max. 14	max. 14	max. 14	max. 23
Active Matter	80 - 98			
Appearance	White to off white, free flowing powder			
Moisture	max.8			
pH (1% sol)	7 - 9			
Starch Content	Absent			
Bulk Density	400 - 600			
Quality Standard	API 13A - ISO 13500			

	CMC LV	CMC HV	CMC EHV
Viscosity at R 600			
Deionized water	max. 90	min. 30	min. 35
40 g/l salt sol.	-	min. 30	min. 35
Saturated salt sol.	-	min. 30	min. 35
Filtrate Vol. (mL)	max. 10	max. 10	max. 9
Active Matter	min. 60	min. 60	min. 65
Appearance	White to off white, free flowing powder		
Moisture	max. 8		
pH (1% sol)	8 - 11		
Starch Content	Absent		
Bulk Density	500 - 800		
Quality Standard	API 13A - ISO 13500		

	ECOPAC-HV 7532	ECOPAC-HV 7537
AV - Apparent Viscosity (API 13A)	min. 32	min. 37
FV - Filtrate Vol. (mL) (API 13A)	max. 28	max. 26
* +30% App. Visc. (API 13A)	51-54	54-60
* +30% Filtrate Vol. (mL) (API 13A)	max. 23	max. 23
Comparison of AV and FV as per standard API grade PAC HV specs stated with 30% more ECOPAC-HV consumption in drilling fluid preparation.		
Active Matter	70 - 80	
Appearance	White to off white, free flowing powder	
Moisture	max. 8	
pH (1% sol)	8 - 11	
Starch Content	Absent	
Bulk Density	400 - 600	

Packing Handling & Storage Transport

REACH

Nett 25kg/50 lb laminated kraft bags, on HT wooden pallets, shrink wrapped and stretch film covered. Max. 3 years in duly closed packing. Must be stored in a cool and dry place. DENCELL, DENCOLL and ECOPAC products are not classified as toxic, flammable, hazardous and dangerous in the meaning of transport regulations by IMCO. According to 07.08.2019 dated Regulation (EC) No. 1907/2006 Annex II (REACH) and Regulation (EU) No.453/2010 CMC and PAC exempted from REACH regulations.

DENKIM DENİZLİ KİMYA SAN. ve TİC. A.Ş.

15 Mayıs Mh. 559 Sk. No:1 İn-Ba İş Merkezi, Kat:3
20150, Pamukkale, Denizli, Turkey
Phone: +90 258 264 21 50 Fax: +90 258 265 58 50
denkim@denkim.com.tr
www.denkim.com.tr



More than 40 years of experience behind, Denkim Kimya is a globally known and highly reputable one of the leading CMC and PAC manufacturer.

- Denkim Kimya started its operations in Denizli in 1995 with the principle of producing and exporting CMC.
- All grades of CMC and PAC products are manufactured within international standards, adopting a customer-focused approach.
- As of today, Denkim Kimya A.S is a well known manufacturer and exporter around the world for CMC and PAC products.
- DENCELL and DENCOLL are registered trademarks of Denkim Kimya A.S. recognized both in domestic and global markets.
- Denkim Kimya A.S. has adopted international quality and testing standards such as ASTM (American Standard Testing Method) and API (American Petroleum Institute) as a sustainable quality standard for manufacturing and R&D processes. All products are manufactured in accordance with these standards and product specifications.
- Denkim Kimya A.S. certified with ISO 9001, 14001, 10002 standards.
- Denkim Kimya A.S. has many multinational global customer references demonstrating that it is a globally recognized company for collaboration in projects, flexible production capabilities, logistics solutions, technical support, quality and sales services of international standards.

KEY POINTS

- Turkey's well known CMC/PAC manufacturer and exporter company
- Exports more than 40 countries in 5 continents
- Since its establishment in 1995, Denkim has grown approximately 22 times in 28 years and reached an annual capacity of 33,000 mtons by 2023
- In house Quality Control and R&D laboratories.
- Denkim Kimya is a highly reputable company known for its quality brands, satisfactory service and competitive price policies in local and international markets
- Exports over 85% of annual capacity worldwide customers
- Independent inspection and quality audit requests are welcome.
- Able to manufacture own machinery and equipment with long years of experience and knowledge in the sector. Engineering knowledge to offer Turn-Key project services.
- Experienced, professional staff with the ability to produce at a lower cost than their competitors
- Award winner for many years as "Top Exporter" in Chemistry from Denizli Exporters Union

STANDARD PRODUCT PORTFOLIO

Laundry Detergent Grades

DT Series
DK Series

Drilling Grades (API)

CMC LV - HV - EHV
PAC LV - HV - R - ULV - ELV

Paint Grades

BT series

Mine Flotation and Mineral Pellets

MG Series

Drilling Grades

ECOPAC LV - HV

Wallpaper Glues & Adhesives

Alfacell - Betacell - Ultracell

Textile, Ceramic and Paper Grades

T series

Customized Products as per required specifications and private label production.

Future Plans

We are passionate, driven solvers who excel at developing practical, flexible and economical solutions to complex problems in applied chemistry, always pushing the boundaries of what is possible and increasing the competitiveness of our customers across a variety of industries...

Mission

We solve our customers' needs by questioning our ability to create and apply custom chemistry, enabling them to increase their effectiveness, improve their competitiveness, and improve the profitability of their products and applications...

Principles

Integrity, Transparency and Accountability, Merit and Collaboration...

Our Values

Credibility of our quality, our experience based on a long history, corporate structure, mission and vision, our commitment to ethical values, as well as our technical team and reliable brands in the light of sustainable new products and manufacturing processes...

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