

DOW

®

SOLUTIONS FOR PRODUCED WATER CLARIFICATION

ROMAX™ Water Clarifiers

Driving greater efficiencies in water clarification



Raising the bar in oil/water separation

Tightening environmental regulations and the limited supply of fresh water are driving the oil and gas industry to seek new solutions for reducing oil in water prior to discharge and to employ reuse schemes in water-intensive activities such as hydraulic fracturing, steam generation and direct injection for enhanced oil recovery processes. ROMAX™ Water Clarifiers from Dow provide a valuable solution for separating oil from produced water and reverse (oil-in-water) emulsions, helping to protect both the environment and production equipment.

Building on the basics

Dow offers a wide variety of water clarifier products to meet the various field requirements. ROMAX™ 7000 series products are anionic and non-ionic in nature and can be formulated with water or ancillary agents such as winterizing agent to meet low temperature operating conditions.

Please refer to the ROMAX™ blending guide for more information on how to use these products.

Ensure compliance, save money

Re-injecting even small quantities of oil with produced water can quickly add up, negatively impacting your bottom line and raising a red flag to environmental regulators. Oil and grease specs on discharged water have been established in each region to ensure the amount of oil in water is at a safe level for disposal. While exact specifications may vary from country to country, Dow's diverse line of ROMAX™ Water Clarifiers can help meet most range of oil-in-water targets.

When the goal is reuse rather than discharge, ROMAX™ products help ensure that oil levels are low enough to allow water to be confidently reused without damage to topside or downhole equipment, or cause problems with the reservoir rock. With a dosage of 1-20 ppm of ROMAX™ products, it is possible to reduce residual oil-in-water from more than 1,000 ppm to below 20 ppm.

Sustainability

Dow uses science and innovation to develop more sustainable, safer solutions for the world. We look across the life cycle of our products to insure our innovations continue to improve, creating a world that is better because of our products. Dow's "Delivering Breakthrough Innovations Goal" is focused on increasing the net positive impact of our products, based upon knowledge of where our feedstocks and energy come from, our processes, how our products are used by customers, and how they are treated at end-of-life.

In the water clarifier space, we help our customers meet stringent regulatory requirements by significantly reducing oil content for disposal or reinjection. It has an added benefit of ensuring a low carbon footprint due to our aqueous-based products (no hydrocarbon solvents) and low aquatic toxicity compared to competitive cationic water clarifiers.

Capabilities

Over the years, our phase separation team has developed industry standard lab capabilities to support our customers by performance benchmarking, product selection and field implementation. Our diverse chemistries and rich oilfield experience enables opportunities to collaborate and innovate to address our customer's specific product and application needs.

ROMAX™ water clarifier kit for field testing





ROMAX™ Water Clarifiers

Product name	Type	Chemistry	% Active	pH	Viscosity (cP)
ROMAX™ 7000	Anionic	Acrylic latex	18	3.0	38
ROMAX™ 7001	Anionic	Acrylic latex	20	3.7	20
ROMAX™ 7005	Anionic	Acrylic latex	28	4.0	10
ROMAX™ 7010	Anionic	Acrylic latex	18	3.0	53
ROMAX™ 7011	Anionic	Acrylic latex	28	4.3	100
ROMAX™ 7020	Anionic	Acrylic latex	30	2.7	15
ROMAX™ 7023	Anionic	Acrylic latex	30	3.2	30
ROMAX™ 7030	Anionic	Acrylic latex	28	2.7	10
ROMAX™ 7035	Anionic	Acrylic latex	29	2.7	150
ROMAX™ 7080	Nonionic	Hydrophobically modified polymer	35	7.0	11000
ROMAX™ 7100	Anionic	Acrylic latex	18	2.9	15

These properties do not constitute specifications. These are typical value of products.

About Dow

Dow (NYSE: DOW) is one of the world's leading materials science companies, serving customers in high-growth markets such as packaging, infrastructure, mobility and consumer applications. Our global breadth, asset integration and scale, focused innovation, leading business positions and commitment to sustainability enable us to achieve profitable growth and help deliver a sustainable future. We operate manufacturing sites in 31 countries and employ approximately 35,900 people. Dow delivered sales of approximately \$45 billion in 2023. References to Dow or the Company mean Dow Inc. and its subsidiaries. Learn more about us and our ambition to be the most innovative, customer-centric, inclusive and sustainable materials science company in the world by visiting www.dow.com.

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