

Rheological additive for low to medium polarity binders and solvents

GENERAL INFORMATION

BENGEL® 658 demonstrates easier dispersibility compared to conventional organoclays. It provides good thixotropy, sag resistance, and anti settling properties.

It is an easy dispersible grade, and provides great flexibility in manufacturing procedures.

It is recommended to be used in systems like air dry long oil alkyd enamels, polyurethane sanding sealers, general industrial maintenances, printing inks, sealants and aliphatic systems.

PHYSICAL PROPERTIES

Composition	organic derivative of a bentonite clay
Color	creamy white
Form	finely divided powder
Moisture	3.5 % max
Granularity (through 325 mesh)	≥95
LOI (loss on ignition)	33 - 36

APPLICATIONS

BENGEL® 658 is an efficient replacement for BENGEL® 908, in aliphatic systems, especially for applications where the easy dispersibility attribute can be utilized to advantage.

BENGEL® 658 demonstrates excellent anti-settling performance in sanding sealer formulations. In long oil alkyds BENGEL® 658 demonstrates superior thixotropy and sag resistance performance.

KEY PROPERTIES

BENGEL® 658 Rheological Additive

- Easy to incorporate, even at less than optimum dispersion conditions
- Simplified manufacturing
- Eliminates the need for pregels
- Eliminates the need for polar activator
- Provides good sag control and pigment suspension properties
- Provides consistent development of rheological properties
- Cost effective

INCORPORATION

BENGEL® 658 is an easy dispersible grade that increases flexibility in paint manufacturing. In view of its easy dispersibility, it is largely recommended to be added in-situ. It is also possible to add it at any point in the manufacturing process. It performs well under less than optimum dispersion condition. A polar activator is not required.

There is generally no need to make pregel. If you have equipment constraints, the pregel technique can be used with BENGEL® 658. This is particularly useful under less than optimum incorporation conditions, as it greatly improves paint performance compared with conventional organoclays.

General paint making equipment, e.g. ball mills, media mills, sand mills will also provide sufficient shear to effectively incorporate and activate BENGEL® 658. For improved performance in very low polarity solvent based systems, a polar activator is recommended.

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LEVELS OF USE

Recommended use levels for BENGEL[®] 658 Use levels are typically 0.2 to 1.5 % by weight of the system. The optimum level to be used is very much dependent on the formulation, efficiency of incorporation technique and equipment. A study to determine the optimum level is always encouraged.

HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

MSDS can be found on the company website at www.elementis-specialties-asia.com.

STORAGE RECOMMENDATIONS

Store in a cool, dry location

PACKAGING

BENGEL[®] 658 rheological additive is available in 25 kg multi-ply paper bags. Please contact your local Elementis Specialties representative for the packaging available in your region.

SHELF LIFE

BENGEL[®] 658 rheological additive has a shelf life of 4 (four) years from date of manufacture

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001/ ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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