



Celite Cynergy® BEER STABILIZING FILTER AID

FAQ

▶ WHAT IS CELITE CYNERGY FILTER AID?

Celite Cynergy is a beer stabilizing diatomite (DE) filter aid. It filters like DE and cold stabilizes like silica gel.

Celite Cynergy replaces both conventional DE and silica gel. Celite Cynergy can reduce total processing aids (silica gel plus DE) by as much as 50%.

▶ HOW IS CELITE CYNERGY FILTER AID USED?

Celite Cynergy filter aid's physical properties are similar to DE. Celite Cynergy runs on existing DE filtration systems so there is no need for capital equipment purchases.

Celite Cynergy application rates can be estimated by using your current xerogel or hydrogel usage. Also, your current filter aid usage can be significantly reduced.

- ▶ Xerogel users will take their current xerogel usage and double that to derive the Celite Cynergy dosage.
- ▶ Hydrogel users will take their current hydrogel usage and repeat it to derive the Celite Cynergy dosage.

CELITE CYNERGY PROCESS COMPARED TO TYPICAL XEROGEL AND HYDROGEL PROCESSES SHOWS REDUCED TOTAL PROCESSING AID USAGE (in g/hL)

Process	DE Filter Aid	Xerogel	Hydrogel	Celite Cynergy	Total
Xerogel	60	15	--	0	75
Celite Cynergy	20-30	0	--	20-30	40-60
Hydrogel	40	--	25	0	65
Celite Cynergy	15-20	--	0	20-25	35-45

▶ IS CELITE CYNERGY FILTER AID APPROVED FOR BEER PRODUCTION?

As a diatomite product, it meets the U.S. Food and Drug Administration (FDA) requirements of Generally Recognized As Safe (GRAS) for use in beer filtration. It is a Food Chemical Codex (FCC) grade diatomite product.

Celite Cynergy does not introduce any "new materials" and is approved for beer processing by both the FDA and the U.S. Tobacco Tax and Trade Bureau (TTB).

▶ HOW WILL CELITE CYNERGY FILTER AID AFFECT MY FILTRATION CAPACITY?

Celite Cynergy increases your filtration capacity because it reduces filter cake volume by up to 50%. See above example, "How is Celite Cynergy filter aid used?"

To arrange an evaluation of Celite Cynergy filter aid, contact our brewing specialists at FiltrationHelp@imerys.com

PROPERTIES | Celite Cynergy® Filter Aid

DESCRIPTION	
A Diatomite Product	
TYPICAL PHYSICAL PROPERTIES	
Origin	Marine diatomite
Wet Density (g/L)	350
Permeability (darcy)	0.2
150 Mesh Screen Analysis (% retained)	1.5
Surface Area (BET, m ² /g)	65
TYPICAL BULK CHEMISTRY	
SiO ₂ (%)	92.4
Al ₂ O ₃ (%)	3.3
Fe ₂ O ₃ (%)	1.5
CaO (%)	0.8
MgO (%)	0.6
K ₂ O (%)	0.6
Na ₂ O (%)	0.5

The physical properties of the products represent typical values obtained in accordance with Imerys test methods and are subject to manufacturing variations. They are provided here as a general reference only, are subject to change without notice, and should not be relied on for any particular application.

IMERYS Minerals for Filtration

P.O. Box 519, Lompoc, CA 93438 USA

t: +1 805-735-7791

e: FiltrationHelp@imerys.com

www.worldminerals.com

