

Nouryon

Adsee™ 1629 and Adsee™ C-70S

Agricultural solutions

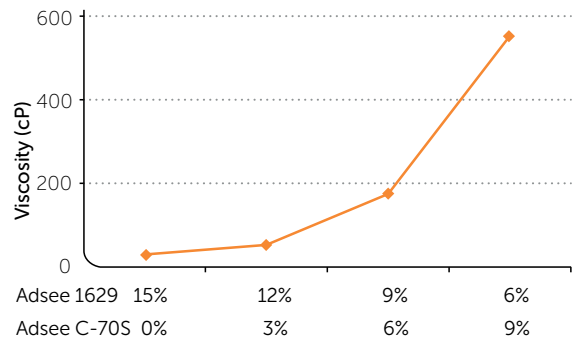
Crop protection formulations with a high content of organic or inorganic salts can be difficult to stabilize. Nouryon has developed a new concept where the adjuvants can be combined to increase bio-efficacy and give your formulation optimal rheology.

A powerful combination for high electrolyte challenges

Key benefits

- Adsee 1629 + Adsee C-70S work together- optimized ratio gives desired viscosity
- Improves bio-efficacy of the formulation
- Works with Glufosinate, Paraquat, Glyphosate, Fertilizers
- Flexibility - reduce your inventory need with one solution for several formulations
- Robustness – Quality differences in the herbicide can be compensated by adjusting ratio
- Easy to handle due to low viscosity and liquid nature

Viscosity of Glufosinate-NH4 200 SL



Field trial results

Adsee 1629 + Adsee C-70S has a faster response time (1 day) compared to market products at 1/2 dosage rate. Field trial performed in Indonesia 2016.

Day 1 DAA



Day 9 DAA



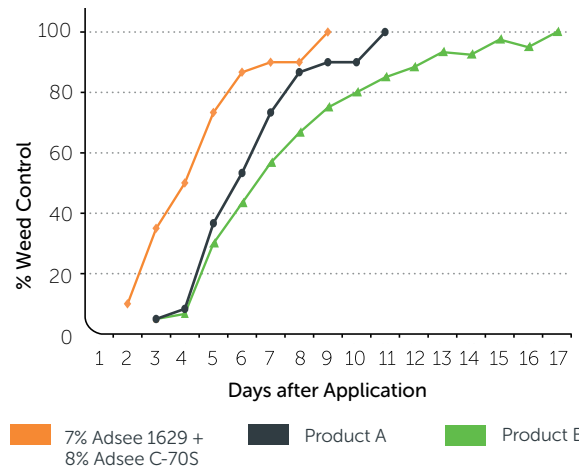
15% Adsee 1629 + Adsee C-70S



Basta

Improved bio-efficacy of Glufosinate

Glufosinate-NH4 13.5% (150SL) with Adjuvant Comparison with two commercial products on the market (A and B)



Product specification

Adsee 1629

C16 trimethyl ammonium chloride

Appearance @ 25°C	Activity	pH	Free amine	Color
clear liquid	27-30%	6-9	max 2%	0-3 Gardner

Adsee C-70S

Coco amidopropyl dimethyl amine

Appearance @ 25°C	Activity	pH	Color
amber liquid	27-30%	6.5-8.5	4-6 Gardner

Paraquat 276 SL and Gel formulation

Combination of Adsee 1629 and Adsee C-70S takes you from high viscosity into a Paraquat gel

Paraquat (42%)	60%	60%	60%	60%
Adsee 1629	10%	9%	8%	10%
Adsee C-70S	-	1%	2%	5%
Water	up to 1l	up to 1l	up to 1l	up to 1l
Viscosity (25°C)	117 cP	629 cP	6448 cP	>10 000 cp



Formulation guide

Glufosinate

Composition	Glufosinate 200 SL	Glufosinate 500 SL
Glufosinate (95%)	17%	41%
Adsee 1629	6%	10%
Adsee C-70S	9%	-
Water	balance up to 1l	balance up to 1l
Viscosity (25°C)	>500cP	>500cP

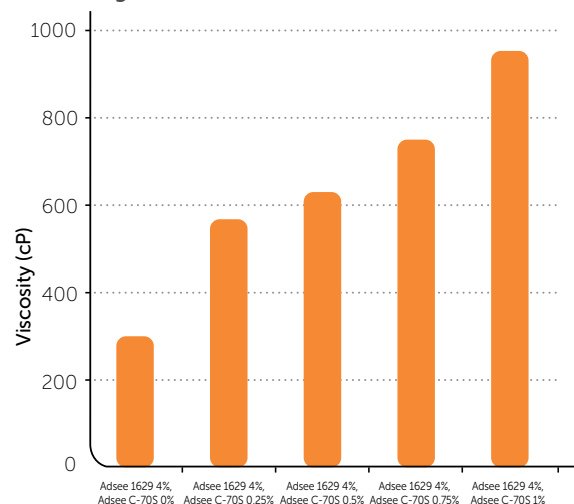
Glyphosate

Composition	Glyphosate-K 540 SL	Glyphosate-KNH4 360 SL	Glyphosate-IPA 450 SL
Glyphosate salt	540 g Glyphosate-K	360 g Glyphosate-NH4	450 g Glyphosate-IPA
Adsee 1629	110 g	70 g	75 g
Adsee C-70S	-	30 g	25 g
Water (25°C)	balance up to 1l	balance up to 1l	balance up to 1l
Viscosity (25°C)	>200 cP	>200 cP	>500 cP

Fertilizer thickening

Adsee 1629 and Adsee C-70S have, due to their cationic character, extremely good compatibility with organic and inorganic salts. They can be used in extreme salt conditions such as 33% NPK.

Thickening of a 33% solution of 15-15-15 NPK



For more information visit nouryon.com/agriculture



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