

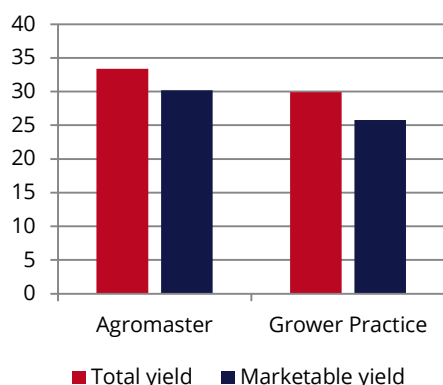
Trial Information

Agromaster®

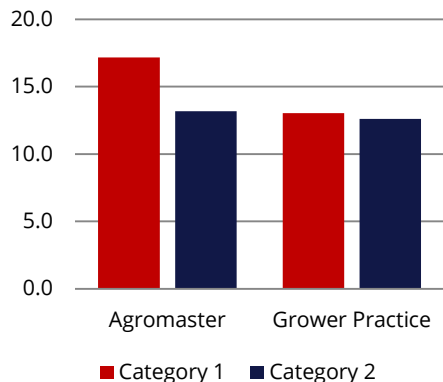
MELON



Yield, MT/ha



Marketable yield, MT/ha



Agromaster 12-5-19+4MgO is a controlled release fertilizer combining quick, initial nutrient release with release of coated nutrients over a longer period.

Agromaster ensures the immediate release of nutrients for the plants needs in the first stages of vegetation and it will continuously feed the plants due to coated Nitrogen by E-Max Release Technology.

Influenced by the temperature, the semi-permeable coating regulates the daily release of nutrients. At higher temperatures, the release of nutrients will be faster. At lower temperatures, it will be slower, in line with the nutritional needs of the plant.

ICL Specialty Fertilizers is keen to make a contribution to sustainable farming by enabling precision nutrition on a wide range of crops.

Trial set-up

Objective: Prove the efficiency of Agromaster as Controlled Release Fertilizer vs DMPP based products, as Inhibitor Fertilizers

Trial station: France

Crop: Melon, variety Gandalf

Assessments: Marketable yield and fruit size distribution.

Conclusions

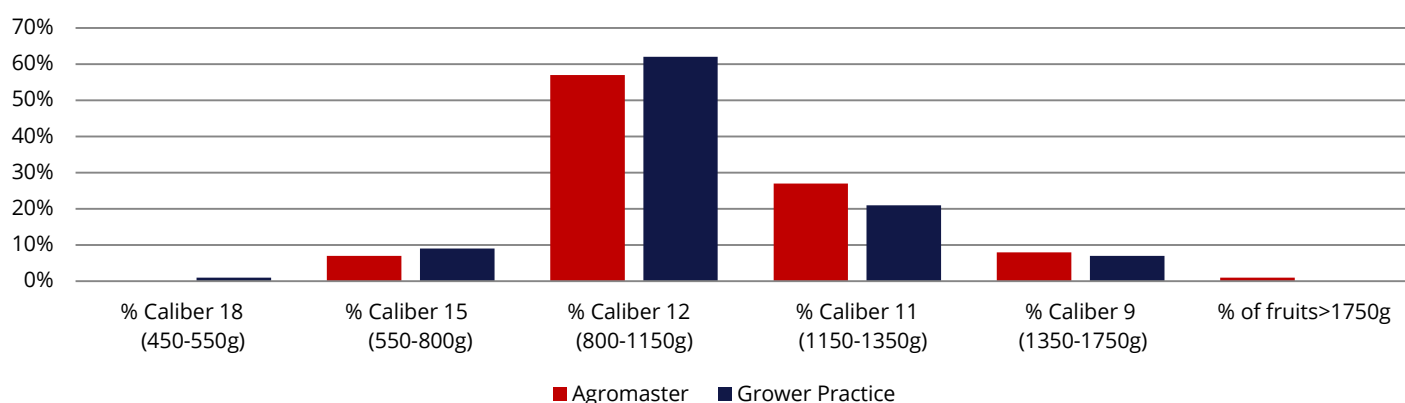
- Agromaster proved that Controlled Release Fertilizers perform better than inhibitor based products, not only in scientific trials but also in open field production.
- Agromaster 12-5-19+4MgO provided better result, due to the controlled release Nitrogen, and achieved a **17%** marketable yield increase vs Grower Practice while the Return on Investment was increased by **8%**.



Treatment	Product	Dosage, kg/ha	Fertilizers units, kg/ha				Stage
			N	P ₂ O ₅	K ₂ O	MgO	
Agromaster	Agromaster 12-5-19+4MgO 2-3M, 34% coated N	300 kg/ha	36	15	57	12	Before planting
	NPK+MgO 0-0-30+10MgO	300 kg/ha			90	30	
	Total fertilizers units, kg/ha		36	15	147	42	
Grower Practice	DMPP (inhibitor based product) 12-8-18+3MgO	300kg/ha	36	21	54	9	Before planting
	NPK+MgO 0-0-30+10MgO	300 kg/ha			90	30	
	Total fertilizers units, kg/ha		36	21	144	39	

* both objects received the same amount of WSF in order to fulfill the plants needs

Fruit size distribution of marketable yield, %



Economic evaluation	Agromaster	Grower Practice
Marketable yield, MT/ha	30.2	25.8
Category 1 high quality, MT/ha	17.2	13.2
Category 2 low quality, MT/ha	13.0	12.6
Gross income, €/ha*	36,100	33,400
Extra cost of ICL treatment (vs. grower practice), €/ha	107	
Extra income/ha (vs. grower practice), €/ha	2,593	

Why does Agromaster 12-5-19+4MgO perform better?

- By using Agromaster, controlled release fertilizer, the Nitrogen is released gradually, following the growth stages and contributing to higher quality.
- Controlled Release Fertilizers are reducing the Nitrogen losses by leaching, volatilization and denitrification, maintaining an optimum level of nutrients for plants to grow evenly.

Attention

Recommendations in this trial info sheet are based on local soil and/or water analyses. Please contact your local ICL Specialty Fertilizers adviser for your personalized fertilizer recommendation. Consult www.icl-sf.com for your contact in the region.

Distributed by:

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