BIG OPPORTUNITIES







BIG POSSIBILITIES WITH CONFECTION

This distinct new market continues to be driven by health benefits for consumers and changing trends in food consumption. It has consistently demonstrated excellent profitability for growers – delivering substantially higher yields.

BIG POTENTIAL

We're unlocking plant potential, delivering value BEYOND YIELD™. We are dedicated to supporting growers, distributors, processors and roasters with sunflower and sorghum hybrids to meet the demands of their markets and to provide the top agronomic performance required for high yields.



FUTURE

Open up BIG opportunities with Carinata. This non-food, low-carbon energy feedstock can be contract grown using sustainable farming practices. You could have a big future with Carinata.

INNOVATION C early and mid-late maturity and bred with Clearfield or ExpressSun® systems fo easy weed management BIG SUPPORT Whether you're a producer, distributor, processor, or roaster our highly trained local Nuseed® staff are working throughout the

region to provide great service and value

BEYOND YIELD™.



BIG IMPACT

Choose from a wide range of high performance linoleic and high oleic oil sunflower hybrids with different maturities, multistacked traits and with options for both Clearfield® and ExpressSun® herbicide tolerance technology.

10

4 Comparisons

Compare each hybrid's outstanding agronomics against product performance in this easy-to-use chart to identify the ideal option for your farm.

6-9 Confection hybrids

Our confection breeding programme has led to the development of high performance hybrids for dehull, in-shell, striped and bird food markets.

10-21 Oil hybrids

We are focused on advances in breeding which offer herbicide tolerance for weed control.

22-31 We are Nuseed®

Working closely with the global breeding programme at our R&D centre, our regional team leverages our rich bank of germplasm to deliver advanced hybrids to customers across Europe.





BIG COMPARISONS

Expand your possibilities with value **BEYOND YIELD™**.

We have a wide range of products suitable for all regions of Europe. Compare each hybrid's outstanding agronomics against product performance in this easy-to-use chart to identify the ideal option for your farm.



Confection Hybrids

TYPE	NAME	MATURITY	HERBICIDE TECHNOLOGY	PAGE
Onyx®	N5LM307	mid-late	Clearfield	8
ConOil	X9767	late	Clearfield	9

Oil Hybrids

ТҮРЕ	NAME	MATURITY	HERBICIDE TECHNOLOGY	PAGE
High Oleic	N4HE115	ultra-early	ExpressSun*	12
High Oleic	N4H161 CL	ultra-early	Clearfield	13
High Oleic	N4H202 E	early	ExpressSun*	14
High Oleic	N4H302 E	mid-early	ExpressSun*	15
High Oleic	NHK12M010	mid-late	Clearfield	16
High Oleic	N4H469 CL	mid-late	Clearfield	17
High Oleic	N4H471 CL	mid-late	Clearfield	18
Linoleic	N4L215 E	early	ExpressSun*	19
Linoleic	N4LM408	mid-late	Clearfield	20
Linoleic	N4L472 CL	late	Clearfield	21

BIG VALUE

The Nuseed® value chain.







Our ground-breaking breeding programme has led to the development of confection hybrids for dehull, in-shell, striped and bird food markets. These deliver high yields, uniformity, large seed size and the best-in-class agronomic resilience to stressed growing conditions. All are available with Clearfield® or ExpressSun® herbicide tolerance.

This distinct new market continues to be driven by health benefits for consumers and changing trends in food consumption. It has consistently demonstrated excellent profitability for growers - delivering substantially higher yields.

Our unique Onyx hybrid sunflowers are engineered to deliver the big, distinctive, all-black kernels so sought after in the confection market. The Onyx range combines Clearfield® and Clearfield Plus® herbicide tolerance with excellent disease resistance and standing power. Onyx delivers the sunflower traits that will drive profit for growers and will deliver exactly what the end market needs.

CONFECTION - ONYX

N5LM307

Top-class hybrid for multiple regions.

Onyx N5LM307's late-season health and standability make it a great choice for in-shell and dehull markets. This high-yielding, multi-purpose hybrid gives growers, in key sunflower production regions, flexibility due to its uniformity and mid-late maturity. High level of resistance to downy mildew provides additional protection.

KEY FEATURES

- Mid-maturity, black confection type.
- Suitable for in-shell usage and dehull.
- Excellent kernel to hull ratio.
- Resistant to multiple races of downy mildew.





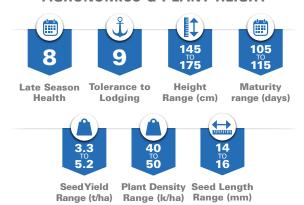
PERFORMANCE POTENTIAL



DISEASE RESISTANCE







BIG

CONFECTION – CONOIL X9767

Loved by processors.

X9767's good kernel to hull ratios and high test weights are highly valued by processors. This hybrid provides excellent protection against downy mildew supporting growers in high risk areas.

KFY FFATURES

- Late maturity, conoil type.
- Excellent kernel to hull ratio.
- Striped seed developed for dehulling.
- Resistant to multiple races of downy mildew.



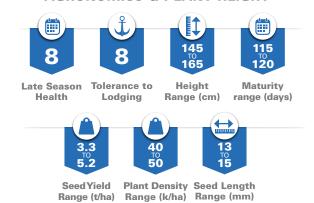
PERFORMANCE POTENTIAL



DISEASE RESISTANCE











The elite genetics in our ground-breaking range of hybrid sunflower seeds will deliver unparalleled results to meet the specific needs of your region.

We are focused on advances in breeding which offer herbicide tolerance for weed control. Orobanche and downy mildew resistance and exceptional agronomics. These combine to provide growers with higher returns from lower inputs.

Choose from a wide range of high-calibre linoleic or high oleic oil sunflower hybrids with ultra-early maturity, mid-early and mid-late maturity and bred with Clearfield® or ExpressSun® systems for easy weed management.

OIL - HIGH OLEIC N4HE115



Next generation, ultra early hybrid.

N4HE115 matures around two weeks earlier than traditional hybrids providing growers with the option of an early harvest, late sowing or single crop. This high oleic hybrid is resistant to **ExpressSun**® herbicides and has improved protection against Sclerotinia.

KEY FEATURES

- Ultra early maturity high oleic type.
- Excellent late season plant health.
- Best for late plant or as a double crop option.
- Under best agricultural practices, high oleic levels can reach up to 87%.





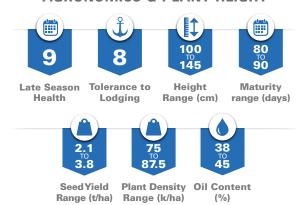
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



ExpressSun®



OII - HIGH OI FIC N4H161 CL



Advance hybrid which matures around two weeks earlier than traditional hybrids.

This ultra early maturity, high oleic hybrid provides up to 90% high oleic levels and matures around two weeks earlier than traditional hybrids giving growers the option of an early harvest, a late planting or a double crop.

KFY FFATURES

- Ultra early maturity.
- Excellent late season plant health.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.



PERFORMANCE POTENTIAL







Seedling Vigour

Drought Tolerance

Flowering Uniformity

DISEASE RESISTANCE







DMR

Sclerotinia **Strains**

Phomopsis Strains











Health

Late Season Tolerance to Lodging

Height Range (cm)

Maturity range (days)









Seed Yield Range (t/ha)

Plant Density Range (k/ha)

Oil Content

OIL - HIGH OLEIC N4H202 E



A high yield, guaranteed.

N4H202 E is an extremely stable high oleic hybrid with good health throughout the season and advanced downy mildew disease resistance and **ExpressSun®** herbicide tolerance. This ensures N4H202 E reduces risk to the grower, whilst maximising productivity on the field.

KEY FEATURES

- Early harvesting with high yield potential.
- Advanced genetic resistance to Orobanche.
- Healthy plant during vegetation.
- Powerful triple stack of traits.

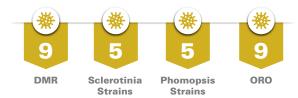




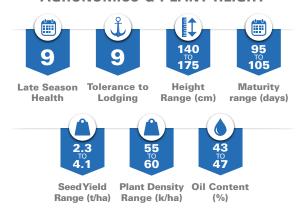
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



ExpressSun®



BIG FAVOURITE

OIL - HIGH OLEIC N4H302 E

High performance all rounder.

With its elevated high oleic profile, N4H302 E is already proving to be a firm favourite hybrid with growers. Its early season emergence and late season good health, combined with optimal head positioning against sunburn, ensures this hybrid always delivers. N4H302 E is an **ExpressSun**® high oleic hybrid bred to be adaptable across all sunflower regions.

KEY FEATURES

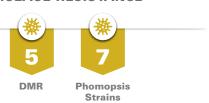
- Mid-maturity, high oleic type.
- Very good head positioning against sunburn.
- Strong stalk and good plant habit.
- Good late season plant health.



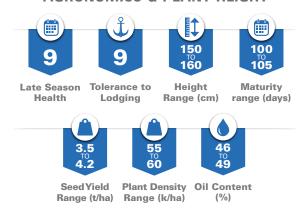
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



ExpressSun®



OIL - HIGH OLEIC NHK12M010

Proven to deliver.

NHK12M010 provides 'best in class' grain yield with good late season plant health. This high performance, high oleic sunflower hybrid delivers both good oil content and top-line high oleic values. It is resistant to multiple races of downy mildew.

KEY FEATURES

- Mid-maturity, high oleic type.
- Outstanding yield potential and late season plant health.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.





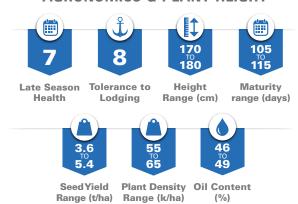
PERFORMANCE POTENTIAL



DISEASE RESISTANCE







BIG AGRONOMICS

OIL - HIGH OLEIC N4H469 CL

Top choice of weed-infested sites.

N4H469 CL has exceptional agronomics with both genetic resistance to race H of Orobanche and **Clearfield**® tolerance technology. This uniform, high oleic hybrid provides strong yields and top quality oil.

KEY FEATURES

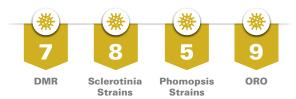
- Mid-maturity, high oleic type.
- Bred to have genetic resistance to race H of Orobanche.
- Resistant to multiple races of downy mildew.
- Good tolerance for Sclerotinia.



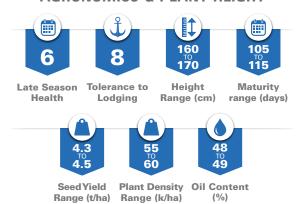
PERFORMANCE POTENTIAL



DISEASE RESISTANCE







OIL - HIGH OLEIC

N4H471 CL

Excellent agronomics.

Under best agricultural practices, the high oleic levels of this mid-late hybrid can reach up to 90%. N4H471 CL is bred with **Clearfield®** tolerance technology and with genetic resistance to race H of Orobanche.

KFY FFATURES

- Mid-maturity, high oleic type.
- Bred to have genetic resistance to race H of Orobanche.
- Resistant to multiple races of downy mildew.
- Under best agricultural practices, high oleic levels can reach up to 90%.

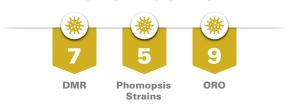




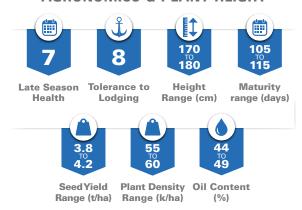
PERFORMANCE POTENTIAL



DISEASE RESISTANCE







OIL - LINOLEIC N4L215 E



Early harvest provides flexibility to the grower.

N4L215 E is our new linoleic hybrid that performs well across the regions. Its early harvest gives the grower the option of more time to prepare for the winter crop and to avoid drought conditions, or later planting. With excellent downy mildew disease resistance and **ExpressSun**® herbicide tolerance, N4L215 E is a hybrid you can rely on to provide high yields with low inputs.

KEY FEATURES

- Advanced resistance to the multiple races of downy mildew.
- Advanced genetic resistance to Orobanche.
- Highly reliable and stress-free to grow.
- Advanced traits to support the grower.

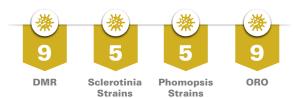




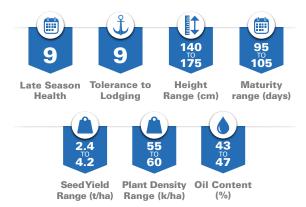
PERFORMANCE POTENTIAL



DISEASE RESISTANCE



ExpressSun®



20 OIL - LINOLEIC

N4LM408

Stands up to weeds and diseases.

N4I M408 is bred with the Clearfield® tolerant production system and resistance to multiple races of downy mildew to combat weeds and sunflower diseases. This mid-maturity, robust, high-yielding hybrid delivers high oil content even in fields overrun with weeds.

KEY FEATURES

- Mid-maturity, linoleic type.
- Clearfield® hybrid.
- High-yielding with strong plant feature.
- Resistant to multiple races of downy mildew.





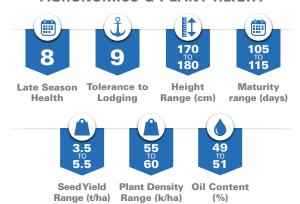
PERFORMANCE POTENTIAL



DISEASE RESISTANCE







BIG

OIL - LINOLEIC N4L472 CL

High genetic resistance

This high performance, mid-maturity linoleic oil hybrid will deliver a high yield every season. Its high resistance to both Orobanche race H and multiple races of downy mildew makes it simple to grow.

KEY FEATURES

- Mid-maturity.
- Bred to have genetic resistance to race H of Orobanche.
- Resistant to multiple races of downy mildew.



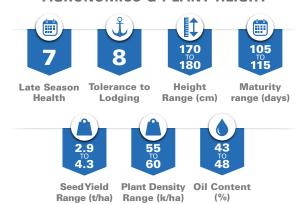
PERFORMANCE POTENTIAL



DISEASE RESISTANCE









Nuseed® is advancing canola, carinata, sorghum and sunflower by adding value BEYOND YIELD™ for growers, end-use customers, consumers and our planet.

We work across 40 countries with regional headquarters and advanced trials in Australia, Europe, North America and South America. Our **BEYOND YIELD**™ commitment and development of output traits produce novel oils and proteins with specific consumer benefits for added value and completely new end-use markets. Worldwide, across every region and every business, our teams are working to provide value **BEYOND YIELD**™ in everything we do.

Nuseed® Europe Ltd Head Office

No.1 Spinningfields Quav Street Manchester UK M3 3JE



BIG

LOW-CARBON CARINATA

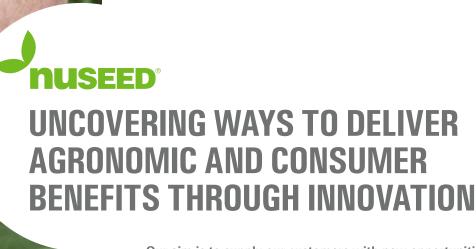
Advancing certifiable non-food low-carbon energy feedstock.

Nuseed® Carinata is a non-food low-carbon energy feedstock contract grown using sustainable farming practices. Commercial contract production started in 2019 with Argentinian growers working alongside Nuseed® and industry partners to supply Saipol, Europe's largest biodiesel processor to produce renewable fuel into the EU RED marketplace. Nuseed® Carinata production is expanding in South America and starting in the United States, with research and development programs advancing in Australia and Europe.



Oil crushed from Nuseed® Carinata reduces emissions when used as a drop-in replacement for fossil fuels. As it grows and protects soil from erosion and carbon loss, its immense above and below ground biomass removes carbon from the air, restores it to the soil, and improves conditions for following food crops. In addition its non-GM meal co-product from crushing is a traceable and certifiable protein source. The Nuseed® Carinata value chain production system facilitates added value throughout the closed loop supply chain and ensures quality, efficiency and identity preservation from field to fuel. Nuseed® is expanding certifiable sustainable production globally, supported by the Nuseed® Carinata offtake and market development agreement announced in 2022 with BP, a leading global energy company head-quartered in London, UK.





Our aim is to supply our customers with new opportunities to produce sustainable plant-based solutions, with specific consumer benefits, for Nuseed® end-use customers.

Developed in our R&D centre in Sacramento, California, Nuseed's pioneering breeding, global germplasm and advanced new hybrids- combined with local field trials and partnerships across the supply chain – ensures our products will help customers reach their potential across sunflower oil, dehull, confection and sorghum markets.

Nuseed® innovation in numbers

- We undertake extensive fields trials across four continents, in Asia, North and South America and Europe.
- 100 s of Nuseed® staff are involved in bringing a hybrid to market.
- It takes up to ten years to develop a new hybrid.
- We have four sunflower research stations in Serbia, California, Minnesota and Argentina.
- Nuseed® genetics comes from five different countries to give Nuseed® an array of plant input traits to work with.

Working closely with the global breeding programme at our R&D centre, our regional team leverages our rich bank of germplasm to deliver advanced hybrids to customers across Europe.

Our highly trained local Nuseed® team is working throughout the region with select local distributors and is dedicated to delivering outstanding service and value BEYOND YIELD $^{\text{TM}}$, whether you're a grower, distributor, processor or roaster.

This makes Nuseed® a partner of choice.







MEET THE TEAM OF PROFESSIONALS READY TO SUPPORT YOUR BUSINESS



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nuseed°

GET THE PRODUCTS AND SUPPORT YOU NEED WITH OUR EXPERIENCED DISTRIBUTOR PARTNERS

Nuseed® distributors are carefully selected. We work with them to deliver the support and guidance you need to maximise yields and profits.

Their extensive knowledge of the Nuseed® hybrid range and the agronomical advice they provide means they can assist you to identify the perfect hybrid for your farm and growing conditions, evaluating the price of seed against other farming inputs.

Find a local distributor

Talk to your local Nuseed® distributor about the wide-ranging benefits of using Nuseed® products.

see more online at nuseed.com

