

Ferobide Tungsten Carbide Composite. One of the world's hardest weldable materials.

It doesn't get much harder than this.

Ferobide is an advanced tungsten carbide steel composite that is one of the world's hardest weldable materials. Developed to combat abrasion damage to steel parts on agricultural and other types of machinery, it delivers unbelievable impact, chip and wear resistance in even the most punishing environments.



Ferobide is optimally suited to sliding wear situations, saving expensive soil engaging parts replacement.

The benefits of using Ferobide



Available in different tile sizes & varying thicknesses from 4 mm to 12 mm.



After 800 acres, the Ferobide reinforcement on this subsoiler foot still has a long way to go



Sumo Subsoiler. 90 acres in very abrasive UK soils & 20mm Hardox™ leg is worn out. 470 acres in the same soils through strategic Ferobide placement.



2 Ferobide tiles of 4 mm thickness placed behind original tungsten on a Vaderstad Topdown™.

Here are 8 great reasons why Ferobide will help you save costs, increase productivity and reduce machine downtime.

1. Ferobide can be applied with standard welding kit.

Unlike tungsten carbide (which requires brazing), an ARC or MIG welder will do the job. There is no specialist process or skill involved and no binder required because Ferobide bonds to steel at high temperature.

2. Ferobide was developed to withstand extreme abrasion.

On the abrasion resistance scale, Ferobide is:

- ✓ 8 times more resistant than 500 HB hardened boron steels
- ✓ 4-5 times more resistant than chromium carbide overlay plates
- ✓ 3 times more resistant than cast white iron.

3. Ferobide tiles are easily applied without removing the wearing part or taking the machine out of action.

Tiles are available in thicknesses of 4mm, 6mm, 8mm and even 12 mm. Larger tiles can be easily shaped for specific applications by scoring them with a cutting wheel and snapping in a vice.

4. Ferobide has endless applications where metal parts are subject to extreme wear. Here are just a few examples:

- Disc mower skids in sand or volcanic ash soils
- Scraper bowls on earth movers
- Mixer wagon auger flights
- Manure spreading blades or lime spreading vanes
- Beet harvester turbine tines
- Excavator Augers - specifically on the outer edge of the holder that cases the tooth locking system.
- Forage Harvester chute liners.
- Bolt hole protection on boron steel cutting edges.

5. Ferobide will get you through the season and save you money.

It will save you the costs of parts replacement during spring drilling and cultivation by greatly extending the life of wearing components.

Case studies from Canada and the UK show clients using Ferobide in high acreage situations with extremely abrasive soils are achieving over **50% annual savings** in the cost of new parts and labour.

6. Ferobide minimises downtime and maximises productivity.

It's a quicker, easier alternative to hard facing that can be applied instantly in the field. With Ferobide, you avoid lengthy delays in parts replacement, so your machines are back in action sooner.

7. A universal fix for contractors and field service technicians.

Ease-of-application makes Ferobide a go-to solution for field service teams and remote contractors needing to get back up and running as quickly as possible. Service vehicles can be stocked with a full range of Ferobide to enable running repairs on machines up to 10 metres in working width.

8. Quality Assurance

You can be confident in the performance capabilities of Ferobide because every batch undergoes ISO 9001 quality assurance testing.



'We completed the ripping process 3 days ahead of schedule thanks to considerable savings in downtime'



Ferobide in action on a John Deere 9 leg inline ripper in Manitoba



At 17% of the cost of original points Ferobide weld on tiles have saved Te Pirita Enterprises countless hours in downtime

Neil Costello, Cultivation & Drilling Contractor
Canterbury, New Zealand

Standard hard facing applied to the points of Neil Costello's two Vaderstad disc and tine cultivators was wearing out within a day in the stony, abrasive soils of Te-Pirita, Canterbury.

Applying 4mm Ferobide tiles to the OEM points has enabled Neil to keep his machines working longer. For about 17% of the cost of a replacement point, Ferobide has saved Neil countless hours in the workshop rebuilding high wear components.

"I'm amazed that Ferobide stays welded to the points of these machines, given the extremely abrasive soils they're working in. The savings in machine downtime have been substantial."

Paul Buhler, In-House Engineer
Manitoba, Canada

Paul welded Ferobide to the point and wings of a John Deere™ 9 leg inline ripper. Here are the results:

Standard point at \$199	110 acres
Standard point + hard facing	220 acres
Standard point + Ferobide	1,100 acres in 2016
Standard point + Ferobide	1,800 acres in 2017

"Ferobide reduced downtime and enabled us to complete our ripping 3 days earlier than usual. By using the product and gaining a better understanding of the ideal placement, we were able to increase the acreage covered even further in 2017.

Thomas Nutt, Arable Farmer
Scarborough, North Yorkshire, UK

"We've been using Ferobide in combination with tungsten carbide soil engaging parts for three years. Our costs of worn parts from heavy cultivation have reduced by 70%."

Mark Warral, Jackson Farms, Scunthorpe
Scunthorpe, Lincolnshire, UK

"Farming 9,000 acres of mixed soils in South Humberside we have some very challenging conditions. Ferobide has extended the life of our wear parts this season reducing costs & man power substantially."

Tom Hinchley, Ag Contractors
UK Based. 'Toshka Farming Project, Egypt'

The Toshka Project is an ambitious Egyptian initiative involving the reclamation of half a million acres of desert. Part of this project has seen the establishment of 22,500 acres of lucerne (with pivot irrigation) for feeding dairy cows.

When it comes to mowing the lucerne, Tom Hinchley says the sandy soil conditions can play havoc with disc mower skids, which have required replacing or building up about every 10 hours. That was until he started using Ferobide.

"We applied a significant amount of Ferobide to the mower skids & we have gone from getting 10 hours lifetime per skid to 6 weeks before changes, he says"

NIAUX 200

BOOST
YOUR PERFORMANCE

Did you know that Ground Gear has NZs largest stock of high hardness boron steel disc blades?

Specific challenges demand specific solutions.

Ground Gear is an independent importer and direct seller of grass raking equipment and hard metal consumables for cultivation and drilling.

We work a little differently to other companies because we don't seek to provide a one size fits all solution and we are not constrained by local dealer arrangements or large inventories.

This allows us the flexibility to adapt quickly to the changing circumstances of farming and work closely with our Overseas manufacturers in providing specific equipment solutions for specific applications. With one eye on the future, our goal is to keep evolving the game with an offering and mode of working with our customers that is unique in every sense.

Ground Gear initiator, Brent Raikes, has been involved with agricultural machinery for more than 25 years. His in-depth knowledge of farming systems and the varying soil conditions, climate and other factors that make up New Zealand's geography enable him to make informed recommendations based on the specific needs of customers. If a solution doesn't exist, we will make it our business to find one.



Brent Raikes
Managing Director

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Disclaimer: GroundGear Ltd is the exclusive distributor of Ferobide in NZ & stocks tiles specific to customer requirements. Any application of this material needs specialist advice & care on placement plus a knowledge of the equipment use & how different soil types influence best practice material placement. Like any high-performance wearing material overheating must be avoided, in order to ensure maximum longevity each pack of Ferobide comes with specific welding guidelines.

For footage on Ferobides in action, go to www.ferobide.com or [Facebook.com/groundgearnz](https://www.facebook.com/groundgearnz)

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