

**LIQUID
FERTILIZERS**

intec
advanced
LIQUID FERTILISERS

AN **isp** PRODUCT RANGE

CENTAUR
ASIA PACIFIC



isp
**THE PARTNER
WE TRUST**

Centaur Asia Pacific has formed an exclusive agreement with ISP (Indigo Specialty Products) to distribute their products in the Asia Pacific region. We bring their innovative products via our extensive distribution network to growers and turf professionals throughout the Asia Pacific region.

ISP (Indigo Specialty Products) is a privately-owned business, formed and owned by a team of industry professionals with extensive experience in manufacture, distribution, development and product registration. ISP is focused on manufacturing & supply of plant protection, pest control, plant nutrition, soil surfactant & biological products.

FORMULATED IN AUSTRALIA



ISP is based in Australia and it is their goal to manufacture the ISP product ranges in Australia as much as possible, where they can oversee product quality processes, whilst allowing us the flexibility to modify products to overcome everchanging challenges. ISP ProForce,

InTec, and HydroForce Range of Products are formulated in Australia using imported materials. ISP XCel Fertiliser and BioForce Biological range are manufactured in Australia to the highest possible standards.

DEVELOPED & RESEARCHED FOR LOCAL CONDITIONS

ISP is heavily focused on local research and development to ensure our products perform at their peak in the Asia Pacific markets. They actively invest in field trial research programs and modify their formulations to match the local conditions of the key markets in which they operate to maximise performance.

InTec range of liquid fertilisers is a comprehensive and flexible management solutions for even the most challenging growing situations.

Find the product in this catalogue that best suits your needs!

intec COLOURPHYLL NITROGEN TECHNOLOGY

The efficient use of Nitrogen is a key issue in turf management. Even before the fertiliser hits the ground, challenges such as minimising nutrient loss and environmental management must be considered. When urea is applied, it starts undergoing a hydrolysis involving moisture and urease enzymes, causing it to break down into Ammonia and Carbon Dioxide. Both these gases will escape to the atmosphere in a process known as **volatilisation**, which can account for up to 30% of the total Nitrogen lost before the plant can access it. The **InTec** products contain an additive (NBPT) which suppresses the enzyme activity of urease, significantly reducing losses. The InTec products also contain a denitrification additive (Dicyandiamide) which slows down the nitrification conversion in the soil, allowing the Nitrogen to remain in the profile longer, significantly reducing losses to leaching.



intec COLOURPHYLL

20 %	Nitrogen	<ul style="list-style-type: none"> ● Sustained foliar feeding for 4-6 weeks. ● Stabilised Nitrogen for efficient release and reduced loss. ● Iron for Chlorophyll and colour production.
6 %	Iron	
1 %	Magnesium	
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **Colourphyll** is a premium blend of stabilised Nitrogen with Iron and Magnesium to assist in the production of excess Chlorophyll for a longer-lasting deep green appearance and high quality growth. The Nitrogen is stabilised using UMAXX technology. Undoubtedly InTec **Colourphyll** is a very useful tool in maintaining turfgrass colour without enhancing excessive growth.

intec COLOURPHYLL TOTAL

17 %	Nitrogen	<ul style="list-style-type: none"> ● Stabilised Nitrogen for efficient release and reduced loss. ● Contains 7 trace elements. ● Iron and magnesium for Chlorophyll and colour production.
6 %	Iron	
1 %	Magnesium	
0.2 %	Zinc	
0.2 %	Manganese	
0.2 %	Copper	
0.1 %	Boron	
0.01 %	Molybdenum	
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **Colourphyll Total** is a stabilised Nitrogen fertiliser with a full trace element package for maintenance of high quality turfgrass. This product is a unique premium liquid fertiliser, ideal for providing extended colour improvement, whilst delivering prescribed levels of essential trace elements for ultimate turf performance.

intec 12-0-20 (POWERED BY COLOURPHYLL N TECHNOLOGY)

12 %	Nitrogen	<ul style="list-style-type: none"> ● High analysis stabilised Nitrogen & Potassium fertiliser. ● Iron for improved colour response. ● Ideal for use in hardening off the plant during high stress conditions.
20 %	Potassium	
0.5 %	Iron	
RATE	100-400mL / 100m ² (10-40L/ha)	

High analysis stabilised Nitrogen and Potassium fertiliser with Iron to enhance controlled and consistent growth in turfgrass. InTec **12-0-20** will also assist in colour and hardening off in turf. Nitrogen is stabilised using InTec technology. The efficient use of Nitrogen is quickly becoming a critical issue in turfgrass where the use of urea and other Ammonium based fertilisers is extensive. From the time these fertilisers are added to the ground, a variety of chemical and environmental changes occur. These changes have a detrimental effect on Nitrogen efficiency and the environment.

intec COLOURPHYLL K

15 %	Nitrogen	<ul style="list-style-type: none"> ● Stabilised Nitrogen for efficient release and reduced loss. ● Potassium in a highly available citrate form. ● Iron and Magnesium for Chlorophyll and colour production.
10 %	Potassium	
4 %	Iron	
1 %	Magnesium	
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **Colourphyll K** is a stabilised Nitrogen with Potassium, Iron and Magnesium to assist in the production of excess Chlorophyll for a longer-lasting deep green appearance and high quality growth. The product is ideal for application throughout the whole year.



intec C.E.C. XTRA

2 %	Nitrogen	<ul style="list-style-type: none"> ● Complete Organic Conditioner For Turf ● Maintain biodiversity, nutrient retention and promote larger root systems. ● Strong root systems helps recovery from pitch marks and damage caused by high traffic.
1 %	Phosphorus	
3 %	Potassium	
3 %	Humic Acid and Fulvic Acid	
5 %	Seaweed	
10 %	Protein	
10 %	Amino Acids	
20 %	Carbohydrates	
RATE	300-750mL/100m ² (30-75L/ha)	

InTec **C.E.C. Xtra** is a combination of Humic Acids, Kelp, Amino Acids, Protein and Carbohydrates to assist in improving soil exchange capacity within the soil environment, whilst also enhancing beneficial microbe support and water retention. The promotants that are naturally derived within the product lead to enhanced root growth structure and density.

intec DESCEND

12 %	Nitrogen	<ul style="list-style-type: none"> ● Added Magnesium will contribute to Chlorophyll production and assist in the Sodium displacement process.
12 %	Calcium	
3 %	Magnesium	
RATE	150-300mL/100m ² (15-30L/ha)	

InTec **Descend** is a formulation of highly concentrated Calcium, Nitrogen and Magnesium fertiliser for the treatment and removal of Sodium accumulated in the soil profile. This product is used to maximise displacement of sodium as high levels can be toxic to turfgrass.

intec FENDER

12 %	Nitrogen	<ul style="list-style-type: none"> ● Designed to rapidly achieve a deep rich colour. ● High levels of Iron for excess Chlorophyll production. ● Quality source of upfront Nitrogen.
8 %	Iron	
1 %	Magnesium	
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **FeNder** is a high analysis Iron, Magnesium and Nitrogen formulation designed to produce quick and prolonged green up of turfgrass. Iron applied to turf will enhance production of Chlorophyll thus giving a long-lasting deep green turf appearance. The Magnesium and Nitrogen will aid in the formation of Chlorophyll in conjunction with the Iron source. This product provides an excellent presentation improvement tool for fairways, tees and higher cut turf surfaces.

intec KEYMAG

5 %	Magnesium	<ul style="list-style-type: none"> ● Corrects Magnesium deficiencies. ● Improves quality and health of playing surfaces.
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **KeyMag** is a high quality chelated complex for the correction of Magnesium deficiencies. Having the correct levels of nutrients is essential for the quality, health and maintenance of the playing surfaces.

intec SPECIALTY LIQUID FERTILISERS

intec MAJOR K

30 %	Potassium	<ul style="list-style-type: none"> ● Your source of bulk Potassium in an organic citrate form. ● Molecules are rapidly absorbed and converted into carbohydrates. ● Increase hardening to reduce wear and lower disease pressures. ● No Nitrogen, Chlorides or Sulphur.
RATE	100-400mL/100m ² (10-40L/ha)	

InTec **Major K** contains 30% Potassium in an organic citrate form, providing major advantages over inorganic salts. Contains no Nitrogen, Chlorides or Sulphur. This product will assist how the plant hardens off during cooler months to assist in reducing wear in turf.

intec PHITE KING

20 %	Phosphorus	<ul style="list-style-type: none"> ● Slow release form of Phosphorus for cell division. ● High Potassium concentration for hardening turf, to reduce disease pressures. ● Increase turgidity for reduced wear and regulated osmotic activity.
30 %	Potassium	
RATE	100-400mL/100m ² (10-40L/ha)	

InTec **Phite King** is a unique formulation of Phosphorus and Potassium in a Phosphonate form. InTec **Phite King** is a Phosphorus based fertiliser that is designed to deliver a slowly available form of Phosphorus to turf, whilst at the same time supplying sufficient quantities of Potassium for strength and durability. This product is extremely useful for use in times of stress or high disease pressure to support plant protection inputs.



intec TRACER MAX

4 %	Iron	<ul style="list-style-type: none"> ● Addresses deficiencies in key trace elements. ● High quality formulation with nutrients in a chelated form. ● Contains 7 trace elements.
2 %	Magnesium	
1 %	Zinc	
1 %	Manganese	
1 %	Copper	
0.5 %	Boron	
0.05 %	Molybdenum	
RATE	100-500mL/100m ² (10-50L/ha)	

InTec **Tracer Max** is a multi-trace element formulation containing Iron, Magnesium, Zinc, Manganese, Copper, Boron and Molybdenum specially design for high quality turfgrass. The application of these trace elements for complete nutritional control in managing quality turfgrass. The role of most trace elements in turf is to form enzymes to initiate or control growth. They act like switches that stimulate and activate plant function.

intec SILIXOL T&O

0.8 %	Plant available Silicon (Si)	<ul style="list-style-type: none"> ● Highly plant available source of silicon. ● Patented, stabilised form of Orthosilicic acid. ● Provides a mechanical barrier, increasing leaf rigidity, enhancing playability characteristics such as ball roll and wear tolerance in sportsturf. ● Increases plant defence characteristics. ● Enhances anti-oxidant systems & photosynthesis.
25g/L	Orthosilicic acid	
RATE	Fortnightly: 2.5-5mL/100m ² (250-500mL/ha) Monthly: 5-10 mL/100m ² (500mL-1L/ha)	

InTec **Silixol T&O** is a proprietary formulation of stabilized Orthosilicic acid. The product has been designed to strengthen and improve plant response in a range of situations including turfgrass, ornamentals and nursery production. InTec **Silixol T&O** is a tank mix flexible formulation of silicon and can be mixed with a range of turf and horticultural management products.

intec SPECIALTY LIQUID FERTILISERS

intec FREEZONE

25 %	Blend of organic and synthetic acids	<ul style="list-style-type: none"> ● Soil Recovery System. ● Reduces alkalinity levels. ● Solubilise locked up nutrients in the profile. ● Improves nutrient uptake. ● Reduces pH. ● Reduces Sodium accumulation. ● Contains no Chlorides. ● Contains Calcium, Iron and Nitrogen.
5 %	Nitrogen	
7 %	Calcium	
0.5 %	Iron	
RATE	20-40mL/100m ² (2-4L/ha)	

Bicarbonate's present in effluent water can accumulate in the soil profile which then interacts with Sodium to form the insoluble compounds which minimises soil quality, fluctuation, water penetration, nutrient deficiency and overall soil health.

InTec **FreeZone** has a unique blend of organic acids that will chelate insoluble compounds, making them available to the plant. Available calcium will now assist removal of unwanted salts in the soil profile, in particular sodium. The results are improved soil quality and a renewed increase in available Calcium, Phosphorus and trace elements.

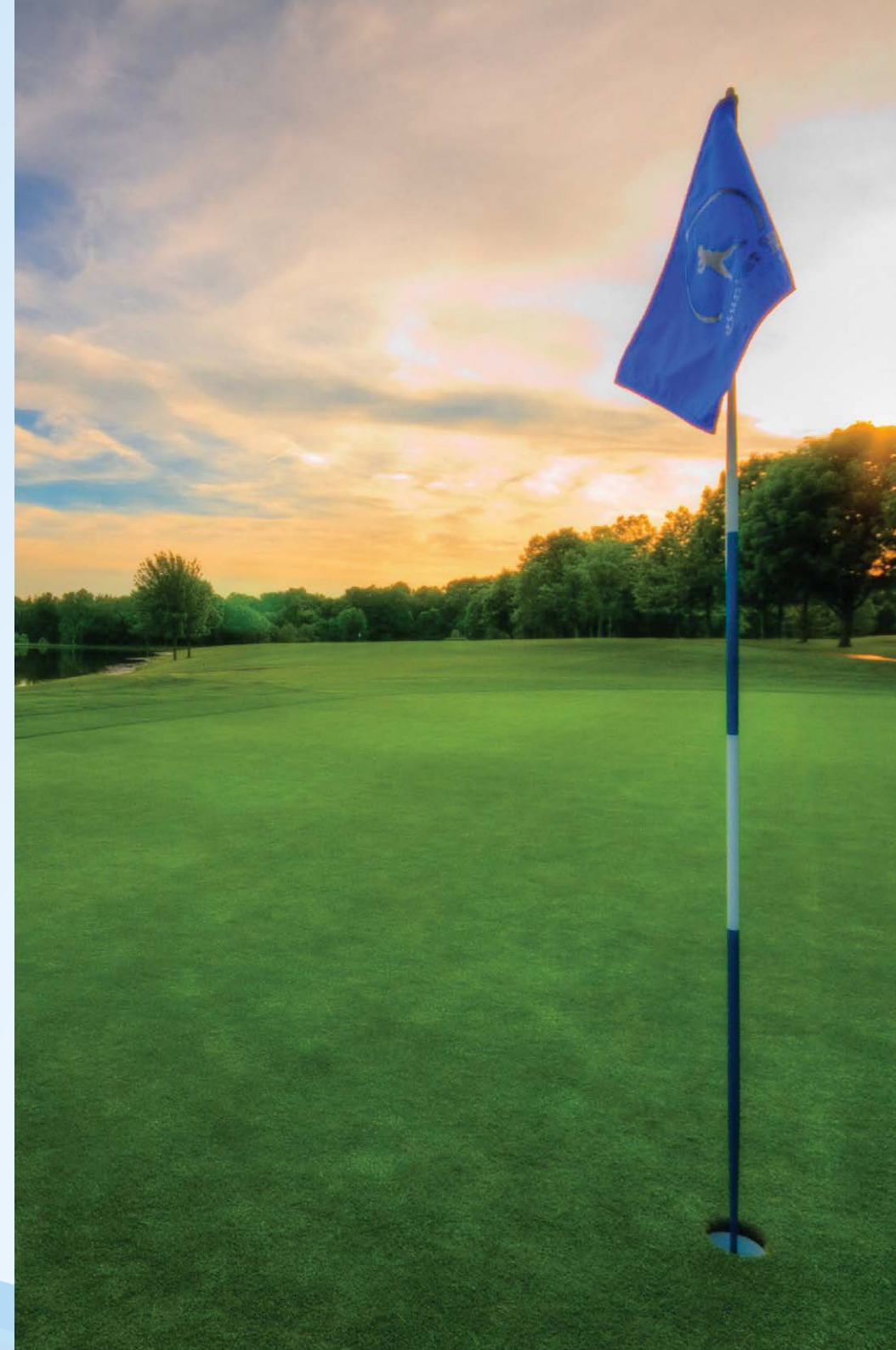
intec FREEZONE INJECTABLE

50 %	Blend of organic and synthetic acids	<ul style="list-style-type: none"> ● Soil Recovery System. ● Reduces alkalinity levels. ● Solubilise locked up nutrients in the profile. ● Improves nutrient uptake. ● Reduces pH. ● Reduces Sodium accumulation. ● Contains no Chlorides.
RATE	Adjust rate according to water quality and flow rate	

InTec **FreeZone Injectable** is a specially modified acid for the treatment of effluent and other poor quality water sources.

The quality of water has a pronounced effect on the growth and health of turf. Irrigation water can contain detrimental salts such as Sodium, Chloride, Carbonates and Bicarbonates that can adversely affect fertiliser efficiency and nutritional control.

InTec **FreeZone Injectable** is uniquely formulated to acidify and cater for poor quality water to meet the requirements of turf.



intec PRODUCT	% NUTRIENT												
	N	P	K	Fe	Mn	Ca	Mg	Cu	B	Mo	Zn	Si	Acid*
InTec Colourphyll	20			6			1						
InTec Colourphyll Total	17			6	0.2		1	0.2	0.1	0.01	0.2		
InTec 12-0-20	12		20	0.5									
InTec Colourphyll K	15		10	4			1						
InTec C.E.C. Xtra#	2	1	3										
InTec Descend	12					12	3						
InTec FeNder	12			8			1						
InTec KeyMag							5						
InTec Major K			30										
InTec Phite King		20	30										
InTec Tracer Max				4	1		2	1	0.5	0.05	1		
InTec SiliXol T&O												0.25	
InTec Freezezone*	5			0.5		7							25
InTec Freezezone Injectable*													50

* Freezezone products contain a blend of organic and synthetic acids.

C.E.C. Xtra contains 20% Carbohydrates, 3% Humic and Fulvic Acid, 5% Kelp (Seaweed), 10% Protein, 10% Amino Acids.

IMPORTANT CONVERSION CALCULATIONS

To Convert	Multiply by
Feet to metres	0.3048
Metres to feet	3.2808
Sq feet to sq metres	0.092903
Sq metres to sq feet	10.7638
Acres to hectares	0.40468
Hectares to acres	2.47105

To Convert	Multiply by
Gallons to litres	4.545
Litres to gallons	0.22
Ounces to grams	28.3495
Grams to ounces	0.03528
Pounds to kilograms	0.4536
Kilograms to pounds	2.2046

To Convert	Multiply by
P to P2O5	2.2910
P2O5 to P	0.4365
K to K2O	1.2051
K2O to K	0.8301
Mg to MgO	1.6578
MgO to Mg	0.6032

N = Nitrogen
P = Phosphorus
K = Potassium
Fe = Iron
Mn = Manganese
Ca = Calcium
Mg = Magnesium
Cu = Copper
B = Boron
Mo = Molybdenum
Zn = Zinc
Si = Silicon



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Centaur Asia Pacific has warehousing facilities in Hong Kong, Vietnam, Singapore and Malaysia