

# AMAZON

## Your Pocket Guide to **LANDSCAPE SUPPLIES**

- ✓ PRODUCTS
- ✓ APPLICATIONS
- ✓ TRANSPORT
- ✓ COVERAGE
- ✓ CONVERSIONS
- ✓ CONSTRUCTION RECKONERS
- ✓ TESTING

**The Experts in Soils • Mulches • Composts**



[www.amazonsoils.com.au](http://www.amazonsoils.com.au)

# THE AMAZON ADVANTAGE

Amazon Soils is one of the largest manufacturers of mulch, compost, potting mix and blended soils in Western Australia. Our range of quality products are produced from rich organic waste materials, therefore providing a great net benefit to the environment and the community by preventing these materials from going to Landfill. With over 20 years experience in organic products, high levels of service and innovation and strict on site quality control, the team at Amazon Soils are the experts in Soils, Mulches and Composts.

**AMAZON LANDSCAPES: GREAT SUSTAINABLE LANDSCAPES IS OUR PROMISE TO YOU**



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WE STRIVE TO GIVE YOU THE BEST SERVICE ALL THE TIME. OUR STRENGTHS ARE YOUR SATISFACTION GUARANTEE.

**ALL METRO AREAS COVERED:**  
3 convenient production sites

**DELIVERY:**  
We get it to you fast

**RANGE:**  
We have all the products you need

**ASSURED FOR QUALITY**  
All our products to high quality standards

**NO JOB TOO BIG OR TOO SMALL**  
Deliveries from 1 cubic metre upwards

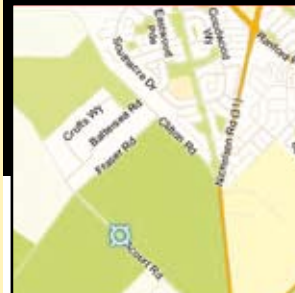
**TRAINED STAFF**  
All have extensive product knowledge

**ASSOCIATIONS**  
Members and sponsors (LIAWA & NIAWA)

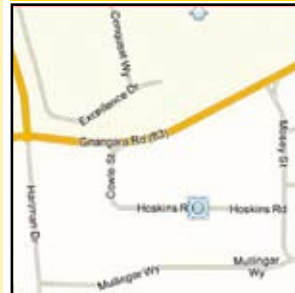
**GREAT LANDSCAPE PRODUCTS**  
Osmocote commercial, Seasol, EZI-WET

**ENVIRONMENTAL PRESERVATION**  
We use renewable resource and waste bi products

## ACOURT ROAD, CANNING VALE



## HOSKINS RD, LANDSDALE



## WESCO ROAD, NOWERGUP



THE AMAZON ADVANTAGE

# MULCH



## WHAT IS MULCH?

Mulch is a layer of material covering the soil, providing the principle benefits of:

- Reducing evaporation of water from the soil
- Regulating soil temperature by providing an insulation layer
- Helping to control weeds
- Reducing erosion
- Adding nutrients as it breaks down
- Plant pathogens suppression



## DIRECTION FOR USE

When mulching try to achieve an even thickness of 75mm (3") over the entire bed but leave a clearance of approximately 25mm (1") around stalks and stems of plants to avoid collar rot – slightly more for larger plants and trees.

Occasionally rake the surface of the mulch and annually top up your mulch back to the 75mm (3") thickness.

PRODUCT	CONTENT	USAGE
Pinebark Mulch	Screened pine bark	All of these mulches have similar performance – with the major difference being the aesthetics. Aim for 75mm in depth.
Natural Enviromulch	Recycled crushed greenwaste	
Exotic Mulch	“A” grade pinebark, crushed pine slivers, woodchip fines, peat and composted organics.	
Budget Black Mulch	Recycled crushed greenwaste and iron sulphate.	
Jungle Mulch	Recycled crushed greenwaste, forest bark, peat and composted organics.	
Karri & Peat Mulch	Crushed forest bark, screened peat and composted organics.	<b>To achieve maximum benefit- MULCH NOW</b>
Sandgroper Mulch	Recycled crushed and pasteurized greenwaste and peat. <b>Complies to Australian Standard 4454 for composts, mulches and soil conditioners.</b>	
Jarrah Wood Chips	Milled jarrah chips.	

## AUSTRALIAN STANDARDS AS 4454

### What is it?

Logo created by peak non-government standards development body in Australia. Applied to composts, soil conditioners and mulches that have been independently tested and certified to best promote plant and soil health.



### Requirements for certification

Comply with set physical and chemical quality criteria . Be free of plant propagules (weeds)- Are within National or State guidelines for contaminant limits and pathogen reduction - Annual site audits

Products are under scrutiny of regular external annual audits that are scheduled by the approved Certification body – SAI Global, a quality assurance company.

# SOIL CONDITIONER



## WHAT IS SOIL CONDITIONER?

Soil conditioner is an organic material which is added to / dug into the soil, providing the principle benefits of:

- Improving soil fertility
- Improving soil structure
- Improving water-holding capacity
- Improving soil-buffer capacity
- Plant pathogens suppression

## DIRECTION FOR USE

Apply soil conditioner at the rate of 50mm to existing soil and dig in well. Ensure that the coverage is even and that the soil conditioner is not heaped in places. Water in well after application.

PRODUCT	CONTENT	USAGE
Mushroom Compost	Composted manures, straw and imported peat moss.	Environmentally-friendly, water saving organic by-product that can be used both as a mulch or a soil improver. <b>NOT TO BE USED ON NATIVE PLANTS.</b>
Amazon Fine Compost	Composted organics and greenwaste. <b>Complies to Australian Standard 4454 for composts, mulches and soil conditioners.</b>	A peat-free soil conditioner that is high in Organic matter, nutrients and trace elements. Spread at 50mm depth — Dig in well.
Metro Soil Conditioner	Screened peat, composted organics and greenwaste. <b>Complies to Australian Standard 4454 for composts, mulches and soil conditioners.</b>	A rich, black compost. Totally organic providing nutrients, trace elements and stimulating microbial activity. Tremendous water retention properties. Spread at 50mm depth — Dig in well.

## ECO FRIENDLY THINKING



Amazon's range of products are produced from organic waste materials, therefore providing a great benefit to the environment and the community by preventing these materials from going to landfill.

**AMAZON:**  
Creating a beautiful Western Australia

# SOIL MIX



## WHAT IS SOIL MIX?

Soil mix is an organic material which can be used as a replacement where no soil exists. It is ideal for new establishments.

All mixes are based on long standing composting techniques so as to obtain the best available soil components. All Amazon soil mixes are designed to provide the optimum benefits of:

- High soil fertility
- Strong soil structure
- High water-holding capacity
- High soil-buffer capacity
- Plant pathogens suppression

## DIRECTION FOR USE

Use as a soil replacement where no soil exists.

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PRODUCT	CONTENT	USAGE
General Garden Mix	Gingin loam, peat, sand and composted organics.	High quality soil replacement mix; ideal for new developments. Organic matter and loam containing a small amount of clay provide nutrients and good moisture retention.
Landscape Mix	Composted organics, sand and peat. <b>Complies to Australian Standard 4419 for Landscape soils.</b>	Suitable for the quick establishment of lawn and most plants in most situations. Ideal for the professional in small or large areas.
Lawn Mix	Topdressing sand, gingin loam and poultry manure.	Excellent topdressing for stimulating tired lawns and levelling uneven lawns. Spread at 10mm (max). Apply spring to late summer for best results. <b>IMMEDIATELY WATER IT IN AFTER APPLICATION.</b>
Native Mix	Gingin loam, sand, peat and composted organics.	Excellent soil conditioner for Australian natives. A free draining blend with sufficient water retention properties to provide a good home for native plants. Spreads at 50mm and dig in 150-200mm.
Vegie Mix	Poultry manure, composted organics, sand, gingin loam and peat.	A rich organic mix; ideal for the establishment of a "Vegie patch". Also excellent for most domestic landscaping requirements.
Potting Mix	"A" grade pinebark, gingin quartz, jarrah sawdust and minor trace elements.	Professional Grade Potting mix – requires the addition of slow release fertiliser.



## AUSTRALIAN STANDARDS AS 4419

**What is it?** AS 4419 applies to landscaping and garden soil and follows the same general principles as AS 4454 (page 5)

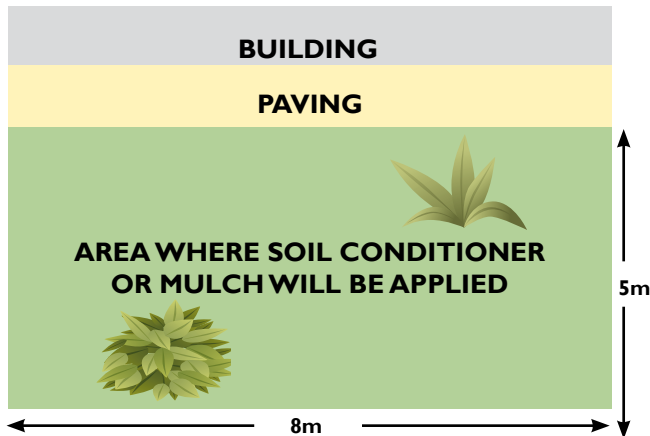
# HOW MUCH



How much will I need? Simple! To calculate how much soil conditioner or mulch you will need, just multiply...

LENGTH x WIDTH x DEPTH

In below for example: 8m x 5m x 0.05m (50mm) = 2m<sup>3</sup>



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## Amazon Truck Loads & Quantities

Single steer tipper (single axle)	= 8t	= 6m <sup>3</sup> soil & sand / 10m <sup>3</sup> mulch
Single steer tipper (6 wheeler)	= 11 – 12t	= 9-10m <sup>3</sup> soil & sand / 15m <sup>3</sup> mulch
Twin steer tipper (8 wheeler)	= 18t	= 14m <sup>3</sup> soil & sand / 20m <sup>3</sup> mulch
Truck & Pig Combination	= 23.5t	= 18-20m <sup>3</sup> soil & sand / 30m <sup>3</sup> mulch
Truck & Dog Combination	= 30t	= 20-25m <sup>3</sup> soil & sand / 40m <sup>3</sup> mulch
Dual axle semi trailer	= 25 – 30t	= 16-18m <sup>3</sup> soil & sand / 25m <sup>3</sup> mulch
Pocket road train (2 dual axle trailers plus dolly)	= 70t	= approx 30-50 m <sup>3</sup>

Note: Above volumes are based on Amazon vehicles only.

## Conversion of 6x4 trailer to Cubic Metres

Trailer	m <sup>3</sup> (approx)
1 trailer	0.7
1½ trailers	1.0
3 trailers	2.0
4½ trailers	3.0

## Approximate Conversion to Metric

INCHES	METRES	INCHES	METRES
1"	0.025	6"	0.150
2"	0.050	7"	0.175
3"	0.075	8"	0.200
4"	0.100	9"	0.225

## CONSTRUCTION - READY RECKONERS

CONCRETE Ready Reckoner	
1.25t blue metal plus 0.625t sand plus 240kg cement	1 m <sup>3</sup> concrete
Note: to achieve 80% slump approx 200L of water to be used.	
BRICK WALLING Ready Reckoner	
Single brick wall	54 bricks per m <sup>2</sup>
Double brick wall	108 bricks per m <sup>2</sup>
MORTAR Ready Reckoner	
1.25t sand plus 140kg cement	per 1,000 bricks
1 wheelbarrow	120 litres
8 wheelbarrows	1 m <sup>3</sup>

HOW MUCH WILL I NEED?

# COVERAGE



## AREA COVERAGE - BULK SOILS, MULCHES & SOIL CONDITIONERS

QUANTITY	1" or 25mm	2" or 50mm	3" or 75mm	4" or 100mm	5" or 125mm	6" or 150mm
1 metre <sup>3</sup>	40 m <sup>2</sup>	20 m <sup>2</sup>	13 m <sup>2</sup>	10 m <sup>2</sup>	8 m <sup>2</sup>	7 m <sup>2</sup>
2 metre <sup>3</sup>	80 m <sup>2</sup>	40 m <sup>2</sup>	26 m <sup>2</sup>	20 m <sup>2</sup>	16 m <sup>2</sup>	14 m <sup>2</sup>
3 metre <sup>3</sup>	120 m <sup>2</sup>	60 m <sup>2</sup>	39 m <sup>2</sup>	30 m <sup>2</sup>	24 m <sup>2</sup>	21 m <sup>2</sup>
4 metre <sup>3</sup>	160 m <sup>2</sup>	80 m <sup>2</sup>	52 m <sup>2</sup>	40 m <sup>2</sup>	32 m <sup>2</sup>	28 m <sup>2</sup>
5 metre <sup>3</sup>	200 m <sup>2</sup>	100 m <sup>2</sup>	65 m <sup>2</sup>	50 m <sup>2</sup>	40 m <sup>2</sup>	35 m <sup>2</sup>
6 metre <sup>3</sup>	240 m <sup>2</sup>	120 m <sup>2</sup>	78 m <sup>2</sup>	60 m <sup>2</sup>	48 m <sup>2</sup>	42 m <sup>2</sup>
7 metre <sup>3</sup>	280 m <sup>2</sup>	140 m <sup>2</sup>	91 m <sup>2</sup>	70 m <sup>2</sup>	56 m <sup>2</sup>	49 m <sup>2</sup>
8 metre <sup>3</sup>	320 m <sup>2</sup>	160 m <sup>2</sup>	104 m <sup>2</sup>	80 m <sup>2</sup>	64 m <sup>2</sup>	56 m <sup>2</sup>
9 metre <sup>3</sup>	360 m <sup>2</sup>	180 m <sup>2</sup>	117 m <sup>2</sup>	90 m <sup>2</sup>	72 m <sup>2</sup>	63 m <sup>2</sup>
10 metre <sup>3</sup>	400 m <sup>2</sup>	200 m <sup>2</sup>	130 m <sup>2</sup>	100 m <sup>2</sup>	80 m <sup>2</sup>	70 m <sup>2</sup>

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## BULK DENSITIES

### QUARRY PRODUCTS

Note: moisture level plays a part in the respective weights of materials. Any sand, soils, composts or mulches are less compacted if placed by hand than those placed by machinery.

Material	tonnes per m <sup>3</sup> Loose filled
<b>Sands &amp; Gravel</b>	
Brickies Sand	1.300
Blue Metal	1.450
Gin Gin Loam	1.350
Gin Gin Quartz Sand	1.400
<b>Soils</b>	
General Garden Mix	1.200
Landscape Mix	1.100
Lawn Mix	1.200
Native Mix	1.200
Potting Mix	0.650
Vegie Mix	1.200
<b>Soil Conditioners</b>	
Amazon Fine Compost	0.650
Metro Soil Conditioner	0.650
Mushroom Compost	0.500
<b>Mulches</b>	
Budget Black Mulch	0.650
Exotic Mulch	0.750
Enviromulch	0.500
Jarrah Woodchips	0.300
Jungle Mulch	0.750
Karri & Peat Mulch	0.750
Pine bark Mulch	0.350
Sandgroper Mulch	0.700



COVERAGE AND BULK

**NOTE: ADD APPROX. 20% MOISTURE CONTENT TO ABOVE FIGURES IN AUTUMN & WINTER.**

# TESTING



**LABORATORY TESTING OF NATURAL SOIL, MEDIA, COMPOST, MULCH, WATER & PLANT TISSUE.**

## TESTING METHODS & RESULTS



Testing is conducted using the most advanced State of the Art equipment. Our large modern testing facility is fully equipped with Atomic Absorption Spectrometer, UV-VIS Spectrometer, high definition microbiological microscope and more.



All analytical tests come with a comprehensive, efficient, user-friendly report that communicates the critical information you need. The turnaround time for a complete analysis is approximately 2 weeks (depending on complexity of testing) from the time we receive the sample.

NOTE: PARTIAL ANALYSIS AVAILABLE ON REQUEST.

CODE	PRODUCT	SAMPLE SIZE	DESCRIPTION
Lab0050	Soil analysis	About 700g to 1kg in weight for full soil analysis	Includes ph, organic matter, nitrate nitrogen, ammonia nitrogen, sulphur, phosphorus, potassium, calcium, magnesium, sodium, chloride, Electrical conductivity, copper, zinc, manganese, iron and boron.
Lab0060	Water analysis	1 Litre of water Sample for full Water analysis	Includes ph, electrical conductivity, total dissolved salts, nitrate-nitrogen, ammonium-nitrogen, phosphorus, chloride, sodium, potassium, calcium, magnesium, boron, sulphur, iron, zinc, copper, manganese, total hardness, sodium adsorption ratio, carbonates, bicarbonates and total alkalinity.
Lab0020	Plant tissue analysis	Each sample should contain 40-50 leaves for full plant analysis	Includes total nitrogen, nitrate nitrogen, chloride, phosphorus, sulphur, potassium, calcium, magnesium, sodium, copper, zinc, manganese, iron and boron.
Lab0010	Pathogen testing	About 1kg or 1 litre of sample	Fungal diseases testing (Phytophthora - dieback & pythium).
Lab0030	Potting mixes	About 5 litres of representative growing media	All testing conducted in accordance to Australian Standards 3743 for potting mixes.
Lab0040	Mulch & Soil conditioners	About 5 litres of representative media	All testing conducted in accordance to Australian Standards 4454 for soil conditioners, Composts and mulches.
Lab0070	Soil blends	About 5 litres of representative media	All testing conducted in accordance to Australian Standards 4419 for soils for landscaping & garden use.



Our Laboratory is a member of the Australasian Soil and Plant Analysis Council.



Our Laboratory operates under the guidelines of International Quality Standard ISO 9001.

# TESTING



## SAMPLING AND DELIVERY PROCEDURES

### NATURAL SOIL ANALYSIS



Sampling should be done by clean augers, spades and other tools. Between sampling different areas or batches clean all used tools by washing or wiping with sanitizing solution.

When preparing a composite sample, each core should be of the same diameter and should penetrate soil to the same depth.

Soil sample should be submitted to the Laboratory in a plastic bag or container, clearly labeled and should be about 700g to 1 kg in weight for full soil analysis.

### PLANT TISSUE ANALYSIS

Plant samples are collected for diagnostic testing to establish the cause of particular (or suspected) disorder.



Therefore the plant tops sample taken for analysis must represent the whole population of plants which need to be tested or the sample can consist of only a number of whole tops or carefully selected leaves (Usually whole tops are taken for the seedlings and leaves only for the woody plants). All the leaves collected must be of the same age and have the same position on the plants.

The representative plant sample should be collected with clean hands or clean gloves, labeled and submitted to the Laboratory in a brown paper bag ASAP. Each sample should contain 40-50 leaves for full plant analysis.

### WATER ANALYSIS



Collect the representative water sample in clean, translucent, low density polyethylene bottles to minimize any contamination. Representative sample for bore waters should be obtained by pumping for app. 30 minutes before collecting the sample for testing. Fill the bottle completely and seal the stopper air-tight to avoid aeration of the sample.

Label sample clearly and forward it to the Laboratory immediately to avoid deterioration. If not possible, refrigerate or ice samples at a temperature of not more than 4°C in order to retard biological activity.

Submit 1 litre of water sample to the Lab for full water analysis.

### PATHOGEN TESTING



Collect the representative sample of material for pathogen testing in a plastic bag or container using clean gloves or clean tools.

Sample about 1 kg or 1 L of sample, label sample clearly and submit it to the Laboratory within a few days after collection.

# TESTING



## SAMPLING AND DELIVERY PROCEDURES Growing media testing to Australian Standards

### GROWING MEDIA TESTING

(Potting Mixes, Soil Conditioners & Mulches, Garden Soils & Soil Blends)

A representative sample is very important for accurate testing.

Use a clean, thin-walled tube to sample media in containers or submit whole containers containing media for testing. For sampling growing media from heaps or stock piles use a clean, long sampling tube or shovel and collect sample deeply into heap or pile from about 10 to 15 different directions and make up to the composite sample in the clean plastic bag or container.

Submit about 5 litres of representative growing media sample to the Laboratory for complete material analysis as per AS 3743, AS 4454 & AS 4419 testing schedule.

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### ABBREVIATIONS - WEIGHTS AND MEASURES

mm	millimeter
cm	centimeter
m	lineal metre
m <sup>2</sup>	square metre
m <sup>3</sup>	cubic metre
km	kilometer
ha	hectare
Cfm	cubic feet per metre
g/ m <sup>2</sup>	grams per square metre
Kg	kilogram
L	litre
t	tonne
MPa	Mega Pascal

### COMMON CONVERSIONS

LINEAL	
1 cm	10 millimeters
1 m	100 centimetres
1 km	1,000 metres
CUBIC	
1 cubic yard	0.76 m <sup>3</sup>
1.3 cubic yard	1 m <sup>3</sup>
1 m <sup>3</sup>	100 x 100 x 100cm

SQUARE	
1 m <sup>2</sup>	10,000 cm <sup>2</sup>
1 ha	10,000 m <sup>2</sup>
1 km <sup>2</sup>	100 hectares
10.76 sq ft	1 m <sup>2</sup>
2.45 acres	1 hectare
LIQUID	
1 gallon	4.54 litres
1 litre water	1 kg
1,000 litres	1 m <sup>3</sup> (1 kilolitre)



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