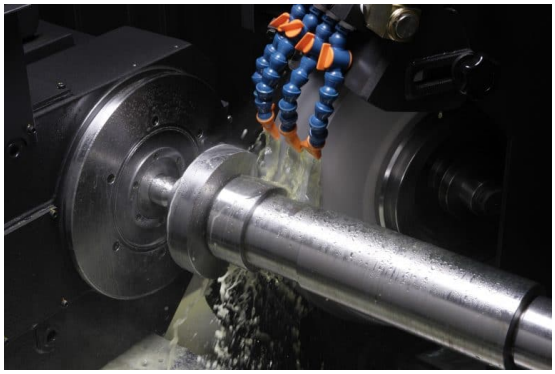
Durasol Syngrind

Durasol Syngrind is recommended for general-purpose surface, cylindrical and centreless grinding of both ferrous and non-ferrous materials. Durasol Syngrind is designed for use in individual machines and also centralised systems.

FEATURES & BENEFITS



- ✓ Exceptional wettability produces extremely rapid heat dissipation dramatically reducing grinding burn and attendant scrap levels.
- ✓ Rapid swarf and grit settlement greatly enhances fluid filterability and clarity offering excellent workpiece visibility and protection from marking.
- ✓ Excellent resistance to bacterial and fungal attack, coupled with a high resistance to tramp oil contamination ensures extended sump life, reducing costly downtime and improving production efficiencies.
- ✓ Outstanding anti-corrosion properties protecting machine and work piece from problematic rusting, promoting extended equipment life and reducing costly downtime.

CREATED TO TAKE ON THE DIFFICULT

High performance “oil free” synthetic grinding fluid. It was developed using the very latest in water miscible synthetic fluid technology, to produce an inherently stable and bio-resistant solution capable of grinding a wide range of materials.

DESIGNED TO GIVE OUTSTANDING PERFORMANCE

Superior cooling and low foaming properties enabling the potential for increasing feeds and speeds, giving improved production efficiencies and lower operating costs.

Excellent resistance to bacterial and fungal attack, coupled with a high resistance to tramp oil contamination ensures extended sump life, reducing costly downtime and improving production efficiencies.

LOW FOAMING AS STANDARD

The unique low foam emulsifier system does not rely on traditional antifoams for foam control. The emulsion when in use produces 50% less foam compared to similar emulsion types with a 50% repeatable rapid increase in foam collapse. To be used in both soft and hard water conditions from 50ppm – 500ppm.

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MATERIALS & PERFORMANCE

Material types	Performance rating	Applications	Dilution
Titanium	**	Tapping	
Aluminium	***	Milling	
Aero aluminium alloys	**	Turning	
High alloy/stainless steel	**	Reaming	
Copper/brass	****	Sawing	
Cast iron	*****	Drilling	
Ferrous Materials	***	Grinding	4-6%

TYPICAL PHYSICAL PROPERTIES

Appearance	Green / Amber Fluid
Emulsion Type	Fluorescent Green
Foaming Tendency @ 5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20ºC	1.020 typical
pH @ 5%	9.5 typical
Refractometer Factor	2.3
IP 287 Corrosion Break Point, % Volume:	2.5

PRODUCT MANAGEMENT

Teklube advise the use of automated mixing systems. If mixing manually, always add the concentrate to the water with maximum agitation, if water is added to the concentrate, the emulsions may prove unstable. Avoid mixing with very cold concentrate or water. Check emulsion strength using a calibrated refractometer. Details of where to purchase equipment and how to use it are available from the Teklube Technical Department.

PRODUCT MANAGEMENT

The working concentration should be carefully controlled and monitored on a daily basis as higher and lower working concentrations have health and safety implications. Machines should be cleaned out regularly. Fluid and particulate contaminants should be kept to a minimum. This is important especially in terms of bacterial control and is in line with the latest advice from government and professional sources. Detailed reference sources are quoted in the

STORAGE

- ✓ Store in a cool, well ventilated area
- ✓ Store inside, between 10°C and 30°C
- ✓ Store away from direct heat and frost
- ✓ Avoid water collecting on the barrel top
- ✓ Shelf life 12 months from the date of manufacture

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