

## Product Information

### HYCUT<sup>®</sup> – System/ Page 1 of 2

## HYCUT<sup>®</sup> ET 46

is the power component for the HYCUT<sup>®</sup> two-component-system. In combination with ADDITIV ET, BF or MG and mixed with water it forms a high-performance metal working emulsion, the concentrate can be used as machining oil or hydraulic oil.

#### Benefits:

- Recommended for demanding processes
- Outstanding lubricating performance
- Easy adaption to application requirements by independent adjustment of two components
- Good run off ensures low consumption
- Clean parts and machine by excellent washing action
- Easy maintenance and long service life due to tramp oil separation
- Non-foaming
- Compatible to HYCUT<sup>®</sup> range of products
- Self emulsifying

#### Data of the Product (Concentrate):

Determination	Method	Unit	Value
Density, 68°F	ASTM D 1298	[kg/m <sup>3</sup> ]	924
Kin. viscosity, 104°F	ASTM D 445	[mm <sup>2</sup> /s]	46

#### Recommended concentration (depending on application and conditions):

3 – 20% (in combination with HYCUT<sup>®</sup> ADDITIV)

#### Shelf Life/ Storage Conditions:

12 months under ambient storage conditions.

#### Industrial Health and Safety - Environmental Protection:

According to Hazardous Materials Identification System the product is labeled –  
Heath = 0; Fire = 1; Reactivity = 0

#### Disposal:

In compliance with the local waste regulations.

## Product Information

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## HYCUT<sup>®</sup> ET 46

use as a hydraulic oil.

### Benefits:

- Hydraulic oil of ISO VG 46 classification
- Capable of absorbing up to 4 % water without impairment of characteristics
- Very good wear protection due to high lubricant power
- Excellent washing power makes systems cleaner
- Outstanding corrosion protection
- Loss oil emulsifies into cutting fluids

### Application Notes:

Before use, please take note of our Product Information on Procedure for “Changeover of a Hydraulic System to HYCUT<sup>®</sup> ET 46”.

### Data of the Product (Concentrate):

Determination	Method	Unit	Value
Kin. viscosity at 40 °C at 100 °C	DIN 53 018	mm <sup>2</sup> /s	46, 9.0
Viscosity index	ISO 2909		187
Pour point equal to or less than	DIN ISO 3016	°C	< -42
Flash point	DIN ISO 2592	°C	216
Particle distribution	ISO 4406		17/15/12
Corrosion protection properties, for steel	DIN 51 585		0-A
Corrosion effect on copper (3h/100 °C)	DIN ISO EN 2160		1
Air separation capability at 50 °C	DIN 51 381-50	min	11
Mechanical test in FZG gear testing rig A 8,3/90 Damage level	DIN 51 354-2		>12
Mechanical testing in vane impeller pump Ring Vane	DIN 51 389-2	mg	7 3
Ash (oxide ash) reported as % by weight	DIN ISO EN 6245	%	0.05
Neutralisation number (acid)	DIN 51 558-1	mgKOH/g	2
Noak at 250°C	DIN 51 581-1	%	8.0