



Polartech® 8280 Oil Phase, Low Foaming Emulsifier Package

Application

Polartech® 8280 is a self emulsifiable oil phase package designed for use in conjunction with the aqueous phase package Polartech® 8440. Polartech® 8280 is based on Italmatch's Polartech® EA 700 and Polartech® LA 8005 low foaming technology in a unique package format, avoiding costly R&D development time. Polartech® 8280 delivers a powerful emulsifying system which enables the production of extremely clean and stable, hard water tolerant, low foaming emulsions. Polartech® 8280 offers blenders the flexibility to produce a range of semi-synthetic metalworking fluids to meet the high demands of the modern machine shop with latest EHS standards.

Example Blending Advice

Component	%wt	
SN 150 Paraffinic Base Oil	27.7	
Polartech® 8280	22.0	
Polartech® GA 90	1.8	
Polartech® 8440	26.0	
Good Quality Water	19.47	
IPBC 30% ¹	0.8	
Biocide ²	2.0	¹ Troyshield® FX 40
Polartech® MP 940 Al	0.2	² Ebotec® BT 80
Antifoam ³	0.03	³ Foamban® HP 720

Please contact Italmatch Chemicals for further detailed formulation and blending guidance.

Key Performance Benefits

- Optimised to work with Polartech® 8440
- Delivers Italmatch's low foaming emulsification system
- Exceptional emulsion cleanliness
- Hardwater tolerance upto 750ppm
- Self emulsifying (water soluble)
- Easy to handle
- Highly concentrated
- No added corrosion inhibitors
- Flexibility of treat rate
- REACH / TRGS 611 compliant

Storage

Store inside warehouse, ideally between 10°C and 30°C
Shelf life of 12 months from date of manufacture
Store out of direct sunlight
Avoid water collecting on barrel top

Typical Package Characteristics

Appearance:	Hazy amber fluid
Appearance at 0°C	Stable, cloudy liquid – recovers at room temperature
Specific Gravity at 15.5°C	0.96
Kinematic viscosity at 40°C, cSt	163
Acid Value / mgKOH/g	42
pH @5% in DI	3.3

