

Q8 Beethoven VHD

Semi-synthetic, biostable, extreme pressure machining & grinding fluid

Q8 BEETHOVEN Range

Q8 BEETHOVEN is a range of high performance soluble metalworking grades which are developed for a wide variety of applications and materials, please refer to each product data sheet

Applications

Q8 Beethoven VHD is recommended for all machining operations, especially those in CNC machines, Machining Centres, Flexible Manufacturing Systems and centralised systems. It gives excellent surface finish and is suitable for all types of materials including high tensile steels, yellow metals and aluminium.

Q8 Beethoven VHD provides lubrication at the tool tip and chip interface, helping prevent built up edge.

When using Q8 Beethoven VHD for grinding operations it keeps the grinding wheel in good condition, and readily separates from grinding debris in the filters.

Product Description

Q8 Beethoven VHD is based on long term tried and tested technologies. This biostable semi synthetic product contains powerful EP and lubricity additives. Biostable means that the product does not degrade in use or produce bad odours, therefore the emulsion needs little or no maintenance. Q8 Beethoven VHD has outstanding corrosion protection even in hard water areas, for both ferrous and non-ferrous metals giving rust and stain free machining. The formulation does not contain cresols or phenols or nitrites.

Summary of Main Features and Benefits

- Excellent performance on a wide range of materials and applications
- Extreme pressure for prolonged tool life
- Biostable emulsion for long sump life with no bad odours
- Easily maintained, especially suitable for centralised systems
- Stable in all normal water conditions (including hard water)
- Clean product, absorbs tramp oil to help prevent sticky machine surfaces

Typical Inspection Data

Appearance (Neat)	Clear Blue
Appearance (Emulsion)	Semi Translucent Blue
pH 5%	9.2
Density @ 20C	0.998
Corrosion Test IP 287	2% breakpoint
Refractometer factor	1.1 (reading x factor = true concentration)

User Instructions

Q8 Beethoven VHD is easily mixed. The correct mixing procedure is to add Q8 Beethoven VHD to water and stir. Positive displacement (Dosatron type) mixing units are recommended for this operation and are available on request. (Never add water to Q8 Beethoven VHD as this can cause invert type emulsions).

Recommended emulsion strengths are listed below. In certain applications it may be beneficial to run at higher concentrations than those stated. Optimum biostability is obtained at concentrations of 3% or above.

Further advice is available from your Q8 representative or from metal@Q8Oils.com

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| • Medium tensile steel and non-ferrous materials | 3.0 – 5.0% |
| • High tensile steels | 5.0 – 10% |

In order to preserve the integrity of this product drums should be stored inside a building protected from frost and direct sunlight.

Health and Safety

Reference should be made to the relevant Q8 Material Safety Data Sheet before use.

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