

GENERAX MP-210

NEW GENERATION MULTI-PURPOSE METALWORKING FLUID

PRODUCT DESCRIPTION

It is a semi-synthetic metalworking fluid suitable for multi-purpose use, forming a stable emulsion when mixed with water. It is formulated with a balanced additive content consisting of high quality mineral base oils and strong emulsifiers, corrosion, foam and microorganism preventive chemicals. It has a wide range of uses in the processing of various metals and metal alloys.

APPLICATION / USAGE

It is successfully used in the processing of iron, steel, casting, aluminum and other non-ferrous metals and their alloys. It is used in cutting operations where there is no excessive load and require lubrication properties.

Normal machining	: % 3-8
Grinding	: % 3-5
Turning	: % 5-7
Milling	: % 6-9
Reaming	: % 6-9

Concentration ranges mentioned above are valid in case of water with a Total Hardness of 5-20 °dH is used in the emulsion. The concentration value is recommended min %7 for water with higher Total Hardness.

In order to increase the service life of the emulsion and to increase the efficiency, system should be cleaned with system cleaners like CLEAN S, CLEAN S SUPER and also it should be cleaned mechanically.

The emulsion should be prepared by adding GENERAX MP-210 on the water meeting the recommended water specifications and blending slowly, in an emulsion preparation tank if possible. It is recommended to use mechanical mixers or dosing pump for blending process. As unstable emulsions occur as a result, water should never be added on the product during preparation.

% Concentration value should be periodically controlled during usage and GENERAX MP-210 should be added to the system when necessary.

ADVANTAGES / BENEFITS

- Its emulsion stability is high. If the emulsion is prepared with water that meets the recommended water properties, it does not decompose into phases,

- Its high cleaning effect keeps the workbench and workpiece clean,

- Thanks to its good wetting feature, it provide optimization of consumption by minimizing the transfer of emulsion with sawdust and parts,

- Due to its special additives, it provides effective protection against corrosion during the operation and short-term storage,

- When it is used with materials such as brass and copper, It does not cause any color change in the emulsion,

- It does not cause stain formation when used with aluminum alloys,

- It has a low tendency to foam even when used in high-pressure systems,

- It provides long service life for the emulsion due to its resistance to microorganism production,

- It transports the undesirable oil to the emulsion surface and helps these oils to be removed from the system,

- In case of usage at recommended concentration ranges, it does not cause any harm to the machining tool paint and/or tool sealing and closure apparatus. It provides cleanliness of the machining tools and pipelines,

- The pH value is adjusted, it does not harm the skin. It does not cause irritation on the hands and skin,

- It does not contain Nitrite, Phenol, Chlorinated Compounds and Secondary Amines.

STORAGE

Protect from direct sunlight and rain. Store in the original closed drums and in covered areas. Storage temperature must be between (+5)-(+40)°C.

HEALTH AND SAFETY

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet

"The above information is derived from our quality checks. Given values are typical of current production. While future production will conform to our specification, variations in these characteristics may occur. Quality Control Analysis Report for to learn properties of the product that is supplied can give. It does not relieve the purchaser from examining product upon delivery and gives no assurance of the product for any particular purpose. Due to continual product research and development, the information contained herein is subject to change without notification."

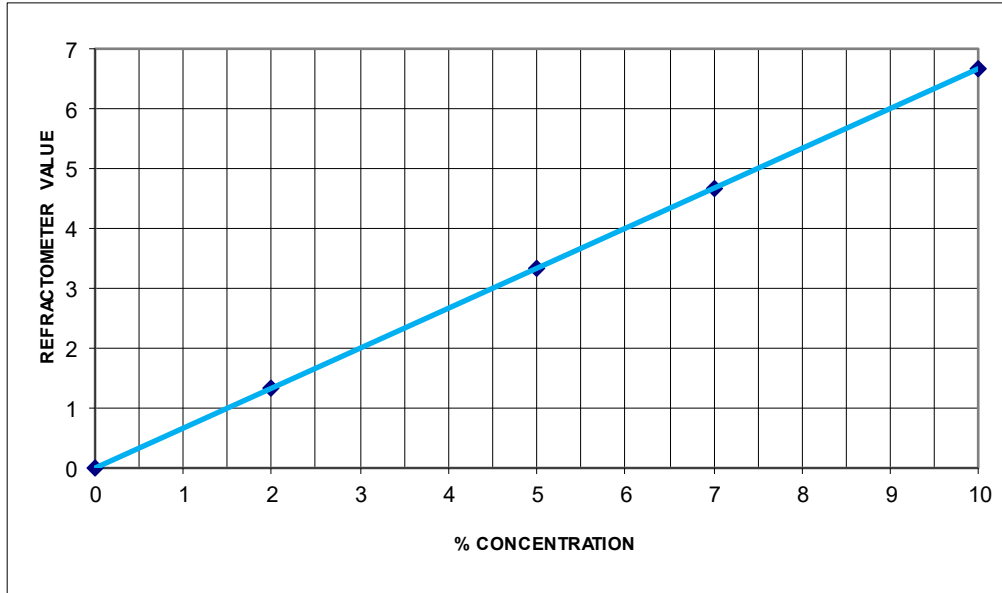
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TECHNICAL PROPERTIES	TEST VALUES	TEST METHOD
Appearance	Yellow, clear	-
Emulsion Appearance (%5)	Translucent	-
Density (20 °C, g/mL)	0.997	ASTM D 1298
pH (%5)	9.06	ASTM D 1287
Corrosion Test (5-10 °dH , %5, 2h)	0-0	DIN 51360/2
Refractometer Factor	1,5	Hand Refractometer

Concentration Control:

% Concentration	Refractometer Value
2	1.3
5	3.3
7	4.7
10	6.7



The data provided for the % concentration control is prepared according to the data obtained for the freshly prepared emulsion. As the utilization time of the emulsion and the undesired oil/contamination amount in the system increases, deviations from the data stated above should be taken into account.

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