

Recommended Media and Loading Rate Guide

TYPE OF WASTES	AQUASET	PETROSET	PETROSET-H	AQUASET II OR AQUASET II-G	AQUASET II-H OR AQUASET II-GH	AQUASET II PLUS PETROSET	PETROSET II	PETROSET II PLUS PETROSET	PETROSET II PLUS AQUASET II	PETROSET II PLUS PETROSET-H	PETROSET II PLUS AQUASET II-H
Water, with less than 0.01M salts or organics	4 lbs/gal	3 lbs/gal	6 lbs/gal	-	AQUASET II-H 5 lbs/gal AQUASET II-GH 6 lbs/gal	-	-	-	-	-	-
Neutralized strong acids	-	-	7 lbs/gal	AQUASET II 4 to 5 lbs/gal AQUASET II-G 8 to 10 lbs/gal	AQUASET II-H 5 to 8 lbs/gal AQUASET II-GH 6 to 9 lbs/gal	50% AQUASET II 50% PETROSET SO ₄ <1.0M NO ₃ <1.0M 5 lbs/gal TOTAL	-	-	-	-	-
Neutralized weak acids	4 to 6 lbs/gal Concentrations up to 0.3M	4 to 5 lbs/gal <0.5M	7 lbs/gal <0.5M	AQUASET II 5 lbs/gal AQUASET II-G 10 lbs/gal	AQUASET II-H 5 to 7 lbs/gal AQUASET II-GH 6 to 8 lbs/gal	50% AQUASET II 50% PETROSET PO ₄ <1.0M Ac<1.0M B <0.1M 4.5 lbs/gal TOTAL	-	-	-	-	-
Water-miscible organics	5 lbs/gal Successful up to 5,000 mg/l	-	-	AQUASET II 5 lbs/gal AQUASET II-G 10 lbs/gal	AQUASET II-H 5 to 7 lbs/gal AQUASET II-GH 6 to 8 lbs/gal	75% AQUASET II 25% PETROSET 4 lbs/gal TOTAL	-	-	-	-	-
Oils, hydrocarbon	-	-	-	-	-	-	PETROSET II 3 to 4 lbs/gal	-	-	See Section 6.1.5 of Process Control Program (PCP) for details	

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Oils, synthetic	-	-	-	-	-	-	PETROSET II 3 to 5 lbs/gal	-	-	See Section 6.1.5 of PCP for details	
Silicone Emulsions	-	-	-	AQUASET II 4 to 6 lbs/gal AQUASET II-G 8 to 12 lbs/gal	-	-	-	-	-	-	-
Solvents	-	-	-	-	-	-	PETROSET II 3 to 6 lbs/gal	-	-	-	-
Other Non-Aqueous Liquids	-	-	-	-	-	-	PETROSET II 2 to 6 lbs/gal	-	-	See Section 6.1.5 of PCP for details	
Combinations Aqueous and Non-Aqueous Liquids	-	-	-	-	-	-	-	See Section 6.1.10 of PCP for details		See Section 6.1.5 of PCP for details	
Sludge's and Slurries, Aqueous	-	See Section 6.1.11 of PCP for details					-	-	-	-	-
Sludge's and Slurries, Non-Aqueous	-	-	-	-	-	-	See Section 6.1.12 of PCP for details	-	-	See Section 6.1.5 of PCP for details	
Sludge's & Slurries Combination	-	-	-	-	-	-	-	See Section 6.1.13 of PCP for details		See Section 6.1.5 of PCP for details	
Soils	-	See Section 6.1.14 of PCP for details					-	See Section 6.1.14 of PCP for details		See Section 6.1.5 of PCP for details	
Solids, Dusts, Granules	-	See Section 6.1.15 of PCP for details					-	-	-	-	-

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Evaporator Concentrates BWR & PWR	-	-	-	AQUASET II 4 lbs/gal AQUASET II-G 8 lbs/gal	AQUASET II-H 6 lbs/gal AQUASET II-GH 7 lbs/gal	75% AQUASET II 25% PETROSET 4 lbs/gal TOTAL	-	-	-	-	-
Slurries - Ion Exchange Resins; Filter Precoat	See Section 6.1.17 of PCP for details	4 lbs/gal	6 lbs/gal	-	AQUASET II-H 5 lbs/gal AQUASET II-GH 6 lbs/gal	-	-	-	-	-	-
Ethylene Glycol Solutions 0%-35% EG	-	-	-	AQUASET II 4 to 5 lbs/gal AQUASET II-G 8 to 10 lbs/gal	AQUASET II-H 5 to 8 lbs/gal AQUASET II-GH 6 to 9 lbs/gal	50% AQUASET II 50% PETROSET 4 to 6 lbs/gal TOTAL	-	-	-	-	-
Ethylene Glycol Solutions 35%-60% EG	-	-	-	AQUASET II 5 lbs/gal AQUASET II-G 10 lbs/gal	AQUASET II-H 8.5 lbs/gal AQUASET II-GH 9.5 lbs/gal	-	-	-	-	-	-
Ethylene Glycol Solutions 60%-90% EG	-	-	-	AQUASET II 6 lbs/gal AQUASET II-G 12 lbs/gal	AQUASET II-H 9.5 lbs/gal AQUASET II-GH 10.5 lbs/gal	-	-	-	-	-	-

PRODUCT DESCRIPTIONS

AQUASET is a granular absorbent used to solidify aqueous solutions with low to moderate levels of dissolved solids. **AQUASET** is used by simply adding it to the waste in a container. **AQUASET** is a versatile absorbent that is effective as a top-off absorbent in containers of damp or wet wastes to capture and retain moisture which otherwise, through transportation vibrations/stresses and temperature fluctuations, could become a free liquid.

AQUASET II is a versatile powdered solidifier that is used to treat aqueous solutions with extremely high levels of dissolved solids, such as neutralized acids and bases, and organic liquids that are mixed with water and are water soluble or miscible (eg. alcohols, benzenes, glycols, low-molecular weight ketones). **AQUASET II** is often used in conjunction with **PETROSET** and **PETROSET II**. **AQUASET II** is particularly useful in treating wastes which contain both heavy metals and water-miscible organics (such as glycols).

AQUASET II-H is a versatile powdered solidifier that is used to treat aqueous solutions with extremely high levels of dissolved solids, such as neutralized acids and bases, and organic liquids that are mixed with water and are water soluble or miscible (eg. alcohols, benzenes, glycols, low-molecular weight ketones). **AQUASET II-H** is often used in conjunction with **PETROSET** and **PETROSET II**. Unlike **AQUASET II**, **AQUASET II-H** sets up to form a hard matrix (load bearing strengths of over 5 tons per square foot or 69 pounds per square inch can be achieved).

AQUASET II-G is a versatile absorbent that is used to treat aqueous solutions with extremely high levels of dissolved solids, such as neutralized acids and bases, and organic liquids that are mixed with water and are water soluble or miscible (eg. alcohols, benzenes, glycols, low-molecular weight ketones). **AQUASET II-G** is the absorbent of choice for liquids that are too salty or contain levels of organics too high for regular **AQUASET**. **AQUASET II-G** is a granular product that may be added to the liquid solution, mixed into a wet material, or placed under it so that it is available to absorb any liquid released.

AQUASET II-GH is a versatile absorbent that is used to treat aqueous solutions with extremely high levels of dissolved solids, such as neutralized acids and bases, and organic liquids that are mixed with water and are water soluble or miscible (eg. alcohols, benzenes, glycols, low-molecular weight ketones). Unlike **AQUASET II-G**, **AQUASET II-GH** sets up to form a hard matrix (load bearing strengths of over 5 tons per square foot or 69 pounds per square inch can be achieved).

PETROSET is used to solidify aqueous solutions with low to moderate levels of dissolved solids. **PETROSET** is used with power mixing to treat sludges and particle suspensions. With the addition of small amounts of water, **PETROSET** can solidify dry solids. **PETROSET** is frequently used in combination with other Fluid Tech products such as **AQUASET II** and **PETROSET II**.

PETROSET-H is used to solidify aqueous solutions with low to moderate levels of dissolved solids. **PETROSET-H** is used with power mixing to treat sludges and particle suspensions. With the addition of small amounts of water, **PETROSET-H** can solidify dry solids. **PETROSET-H** is frequently used in combination with other Fluid Tech products such as **AQUASET II** and **PETROSET II**. **PETROSET-H** sets up to a hard matrix (load bearing strengths of over 5 tons per square foot or 69 pounds per square inch can be achieved).

PETROSET II is a finely ground, strongly organophilic solidification agent. **PETROSET II** is used to solidify wastes having some or all of the liquid components that are not water-miscible (such as oils). Solidification of wastes having both water-miscible and water immiscible components is accomplished using **PETROSET II** in combination with **PETROSET** or **AQUASET II**.