

# HDD MIXING CHART

COARSE SOILS - NO RECYCLE					REACTIVE CLAYS OR UNKNOWN - NO RECYCLE				
DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED PRODUCTS	DOSAGE PER 100 GALS FRESHWATER	VISCOSITY SECONDS PER/QT	DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED PRODUCTS	DOSAGE PER 100 GALS FRESHWATER	VISCOSITY SECONDS PER /QT
SAND	1	SODA ASH	0.25-0.5 LBS	50-60	CLAY	1	SODA ASH	0.25-0.5 LBS	35-40
	2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	20-25 LBS			2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	7-10 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	0.5 LBS 0.5-1 QT			3	INSTA-VIS PLUS OR INSTA-VIS DRY	0.5-1 QT 0.25-1 LB	
	4	IF CLAY PRESENT DRILL-TERGE OR CLAY CUTTER	0.5-0.75 QT 0.5 PT			4	DRILL-TERGE	0.5-0.75 QT	
SAND & GRAVEL	1	SODA ASH	0.25-0.5 LBS	50-70	STICKY CLAY	1	SODA ASH	0.25-0.5 LBS	35-40
	2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	25-30 LBS			2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	7-10 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	0.5-1.5 LBS 1-1.5 QTS			3	ACCU-VIS	0.25-0.5 QT	
	4	SUSPEND-IT IF CLAY PRESENT DRILL-TERGE OR CLAY CUTTER	0.5-1.0 LB 0.5-0.75 QT 0.5 PT			4	CLAY CUTTER <small>*Not to exceed 1 gallon/ 1000 gallons</small>	1 PT	
GRAVEL & COBBLE	1	SODA ASH	0.25-0.5 LBS	70-90	UNKNOWN	1	SODA ASH	0.25-0.5 LBS	50-60
	2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	25-30 LBS			2	HYDRAUL-EZ (NEW) OR SUPER GEL-X	20-25 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	1-1.5 LBS 1-1.5 QTS			3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	0.5 LBS 0.5-1 QT	
	4	SUSPEND-IT	1 LB			4	DRILL-TERGE	0.5-0.75 QT	
<b>HERCUL-EZ - EXTREME SOLIDS SUSPENSION MIXING RATIOS</b>					<b>CETCO X-TORQUE - ROTATIONAL TORQUE REDUCER</b>				
TYPICAL APPLICATION - PER 1000 GALLONS					TYPICAL APPLICATION - PER 100 GALLONS				
	NUMBER OF BAGS (50 LB)	SODA ASH (LB)	HERCUL-EZ NUMBER OF BAGS (25 LB)		DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED CETCO PRODUCTS	DOSAGE PER 100 GALS FRESHWATER	
SUPER GEL-X	5	12	1.5		ANY	ANY	CETCO X-TORQUE	1-2 QTS	

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