

# HDD MIXING CHART

COARSE SOILS - RECYCLE				
PER 100 GALLONS FRESHWATER				
DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED CETCO PRODUCTS	DOSAGE PER 100 GALS FRESHWATER	VISCOSITY SECONDS PER/QT
SAND	1	SODA ASH	0.25-0.5 LBS	50-60
	2	HYDRAUL-EZ OR SUPER GEL-X	25 LBS 25-30 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	0.5 LBS 0.5-1 QT	
	4	SUSPEND-IT	0.5 LB	
	5	IF CLAY PRESENT DRILL-TERGE AND INSTA-VIS LOW VISCOSITY	0.5-0.75 QT 0.25-1.0 LB	
SAND & GRAVEL	1	SODA ASH	0.25-0.5 LBS	50-65
	2	HYDRAUL-EZ OR SUPER GEL-X	25-30 LBS 25-30 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	0.5-1.0 LB 0.5-1 QT	
	4	SUSPEND-IT	0.5 LB	
	5	IF CLAY PRESENT DRILL-TERGE AND INSTA-VIS LOW VISCOSITY	0.5-0.75 QT 0.25-1.0 LB	
GRAVEL & COBBLE	1	SODA ASH	0.25-0.5 LBS	60-75
	2	HYDRAUL-EZ OR SUPER GEL-X	30-35 LBS 30-35 LBS	
	3	REL-PAC XTRA-LOW OR SUPER PAC XTRA-LOW	1-1.5 LBS 1-1.5 QTS	
	4	SUSPEND-IT	1 LB	

REACTIVE CLAYS OR UNKNOWN - RECYCLE				
DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED CETCO PRODUCTS	DOSAGE PER 100 GALS FRESHWATER	VISCOSITY SECONDS PER QUART
CLAY	1	SODA ASH	0.25-0.5 LBS	35-45
	2	HYDRAUL-EZ OR SUPER GEL-X	10-15 LBS 7-10 LBS	
	3	INSTA-VIS LOW VISCOISTY	0.25-1.0 LB	
	4	DRILL-TERGE	0.5-0.75 QT	
STICKY CLAY	1	SODA ASH	0.25-0.5 LBS	35-45
	2	HYDRAUL-EZ OR SUPER GEL-X	10-15 LBS 7-10 LBS	
	3	INSTA-VIS LOW VISCOISTY	0.25-1.0 LB	

## CETCO X-TORQUE - ROTATIONAL TORQUE REDUCER

### TYPICAL APPLICATION - PER 100 GALLONS

DRILLING CONDITIONS	MIXING ORDER	RECOMMENDED CETCO PRODUCTS	DOSAGE PER 100 GALS FRESHWATER
ANY	ANY	CETCO X-TORQUE	1-2 QTS

## HERCUL-EZ - EXTREME SOLIDS SUSPENSION MIXING RATIOS\*

### TYPICAL APPLICATION - PER 1000 GALLONS

	NUMBER OF BAGS (50 LB)	SODA ASH (LB)	HERCUL-EZ NUMBER OF BAGS (25 LB)
SUPER GEL-X	5	12	1.5
HYDRAUL-EZ	5	12	1.5-2

**NOTE: \*HERCUL-EZ EXTREME SOLIDS SUSPENSION CAN BE USED FOR ANY UNCONSOLIDATED GROUND AND IS RECOMMENDED FOR COARSE SAND, GRAVEL, AND COBBLE.**

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