

Wellbore Clean Chemicals

mud type	displacement applications	Key product name	recommended treatment
water base	cased hole direct cased hole indirect riser clean-up	Key Wash 100™ mixed alcohol and surfactant blend	Key Wash 100™ is mixed with saltwater or completion fluid. Use computer aided design based on wellbore geometry and desired displacement strategy
water base muds containing 4 to 6% oil	case hole direct cased hole indirect riser clean-up	Key Wash 200™ solvent/surfactant blend	Key Wash 200™ is mixed with saltwater or completion fluid. Use computer aided design based on wellbore geometry and desired displacement strategy
oil base or synthetic oil base muds	cased hole direct push mud out of well bore and clean wellbore in single operation	Key Flush™ Key Flush Gel™	Key Flush™ solvent may be viscosified and weighted utilizing Key Flush Gel™ polymer for various rheological properties and densities
oil base or synthetic oil base muds	cased hole direct push mud out of well bore and clean wellbore in single operation	Key Wash 200™	Key Wash 200™ may be used in place of Key Flush™ for some OBM displacements
oil base or synthetic oil base muds	cased hole indirect push mud out with sea water, clean wellbore in separate operation	Key Flush™ Key Surf™	utilizes concentrated Key Flush™ to clean the casing and a Key Surf™ for wetting all wellbore surfaces. Use computer aided design
oil base or synthetic oil base muds	open hole direct push mud out of wellbore and clean open hole in single operation	Key Flush™	Key Flush™ is used in the lead and tail spacers to remove the external filter cake

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