



MUD PUMP LINERS

Long-lasting and superior functionality

TECHNICAL DATA SHEET



Ceramic / Zirconia Liner

- Shoulder-on-hull design to prevent sleeve slippage.
- Reduce liner and piston wear.
- Rated for all drilling operations up to 7500 PSI.
- Bore hardness of 92-94 Rockwell
- ID tolerances of +0.10”/-0.00”
- Surface finish of 4-8 RMS
- Hardness 92-94 RC
- High-pressure design to prevent slippage
- Liner sizes are available from 4 1/2’ to 7’ for most mud pumps.

Description	Bore Hardness (Rockwell scale)	Pressure Rate	Temperature Rate	pH (Normal)	Hydrogen Sulfide (Max.in ppm)	Life Expectancy
Ceramic / Zirconia Liner	92 - 94	Up to 7,500 psi	20 - 350°F	7.5 - 10.2	24	More than 4000 hours.



High Chrome Sleeve Liner

- Rated for all drilling operations up to 7500 PSI.
- Bore hardness is 60 - 67 Rockwell.
- Plip design to prevent inner sleeve slippage.
- Extremely long service life.
- Sizes from 4 1/2’ to 7’

Description	Bore Hardness (Rockwell scale)	Pressure Rate	Temperature Rate	pH (Normal)	Hydrogen Sulfide (Max.in ppm)	Life Expectancy
High Chrome Sleeve Liner	60 - 67	Up to 7,500 psi	20 - 240°F	7.5 - 10.2	22	More than 800 hours.



File Hard Liner

- Single high-strength forged steel hull construction.
- Bore hardness 58 - 62 RC.
- Rated for drilling operations up to 5,000 PSI
- Corrosion resistance, free deformation
- Inner bore is nitro carburized and quenched.

Description	Bore Hardness (Rockwell scale)	Pressure Rate	Temperature Rate	pH (Normal)	Hydrogen Sulfide (Max.in ppm)	Life Expectancy
File Hard Liner	58 - 62	Up to 5,000 psi	20 - 230°F	7.5 - 10	22	From 600 to 800 hours.

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