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Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

BARIUM COMPLEX LUBRICATING GREASE

SumTech® AQ-320

SumTech® AQ-320 is a Barium complex ISO 320 lubricating grease for use in wet environments. The special Barium complex thickener is resistant to steam and mild alkaline and acidic solutions preventing **SumTech® AQ-320** from becoming washed out of the lubricating area. The nature of the special thickener system gives **SumTech® AQ-320** a very tacky nature which is similar to the specific gravity of water, providing an unprecedented level of protection against water washout and corrosion. Premium anti-oxidants provide excellent thermal stability and a blend of corrosion inhibitors extend the excellent anti-corrosion nature inherent of the thickener. **SumTech® AQ-320** is the grease of choice for marine, pulp and paper, and steel mill industries where exposure to water and aggressive media cannot be avoided. **SumTech® AQ-320** is also suitable for use in sealing water valves, labyrinth seals, and rotary steam unions.

PRODUCT	AQ-320
NLGI Grade	2
Color	beige, light brown
Texture	homogeneous
Base Oil	mineral oil
Base Oil Properties - <i>ASTM D 446</i>	
Viscosity at 40°C cSt	320
Viscosity at 100°C cSt	21
Viscosity Index	75
Thickener Type	barium complex soap
Density at 20°C (g/cm³)	0.98
Service Temperature	-10°F to 320°F
Drop Point, <i>ASTM D 2265</i>	>220°C(428°F)
Penetration, <i>ASTM D217</i>	
Worked 60 ds	255 - 285
Oil Separation - <i>ASTM D 6184</i>	< 2%
4-Ball Wear - <i>ASTM D 2266</i>	approx. 0.4
4-Ball Load Wear Index - <i>ASTM D 2596</i>	37.4
Last non Seizure load	50
Last seizure load	250
Weld load	315
Water Washout - <i>ASTM D 1264</i>	< 5
Corrosion Preventative Properties, <i>ASTM D 1743</i>	Pass
Corrosion Preventative Properties, EMCOR - <i>ASTM D 6138</i>	0 / 0 (no rust)
Copper Corrosion - <i>ASTM D 4048</i>	1a

Shelf Life: Product shelf life is 5 years from the date of manufacture, after which the product should be recertified prior to use.