

<i>Light Duty Sheaves &amp; TB Bushings</i>		<i>Heavy Duty Sheaves</i>	
<b>Description</b>	<b>Product Specifications</b>	<b>Description</b>	<b>Product Specifications</b>
Gray Cast Iron <i>Light Duty</i>	SAE J431 Grade G2500 ASTM Class 25 Gray Iron	Gray Cast Iron <i>Heavy Duty</i>	SAE J431 Grade G3000 ASTM Class 30 Gray Iron
Composition	Typical Base Composition % Carbon 3.30-3.60 Silicon 2.10-2.50 Manganese ..... 0.60-0.90 Sulfur (max <sup>a</sup> ) .....15 Phosphorus (max) .....20 Approximate Carbon Equivalent <sup>b</sup> ..... 4.10-4.30 <sup>a</sup> = typical value <sup>b</sup> = CE={%C + 1/3% Si.}	Composition	Typical Base Composition % Carbon 3.20-3.50 Silicon 1.90-2.30 Manganese ..... 0.60-0.90 Sulfur (max <sup>a</sup> ) .....15 Phosphorus (max) .....15 Approximate Carbon Equivalent <sup>b</sup> ..... 3.90-4.20 <sup>a</sup> = typical value <sup>b</sup> = CE={%C + 1/3% Si.}
Mechanical Properties	Typical Values Tensile Strength - P.S.I. 24,500 min. Brinell Hardness - range 170-229	Mechanical Properties	Typical Values Tensile Strength - P.S.I. 29,500 min. Brinell Hardness - range 187-241
Microstructure	Pearlitic - Ferritic	Microstructure	Pearlitic
Primer/Paint	Cast iron sheaves are phosphorated before painting. This is to improve the cohesion between the paint film and the base to effectively keep the metal free from rust. A high quality phosphoric lacquer is used to form a dense and regular gray phosphating film over the iron. Paint Type: Amino Baking Enamel.		
TB Bushings & Jaw Couplings	Phosphorated Only		

**OD & DOUBLE SPLIT TAPER BUSHINGS**

<b>Description</b>	<b>Product Specifications</b>
Ductile (Nodular) Iron	SAE J434 Grade D4512 ASTM 65-45-12
Composition	<b>Typical Composition Values %</b> Carbon ..... 3.20-4.10 Silicon ..... 1.80-3.00 Manganese ..... 0.10-1.00 Sulfur ..... 0.005-0.035 Phosphorus ..... 0.015-0.10
Mechanical Properties	<b>Typical Values</b> Tensile Strength P.S.I. .... 65,000 Brinell Hardness range .... 156-217 Yield Strength, 0.2% offset ..45,000
Microstructure	Pearlitic - Ferritic
Coating	Phosphorated - (Bushings are not painted)
Bolt Grade	Equivalent to SAE Grade 5

**Jaw Couplings & H Bushings**

<b>Description</b>	<b>Product Specifications</b>
Powdered Metal	FTG70CU-35
Composition	<b>Typical Composition Values %</b> Carbon ..... 0.50-1.10 Copper ..... 0.60-1.50 Silicon ..... ≤0.10 Manganese ..... ≤0.15 Sulfur ..... ≤0.50 Phosphorus ..... ≤0.10
Mechanical Properties	<b>Typical Values</b> Tensile Strength P.S.I. .... 49,700 Brinell Hardness range ..... >100
Microstructure	Pearlitic - Ferritic
Bolt Grade (Bushings)	Equivalent to SAE Grade 5

All sheaves are statically balanced (sheave is put on a shaft to determine imbalance position & weight then the relevant weight is drilled off.) Dynamic balancing is necessary on certain applications (sheave & bushing are installed on a motor running at the desired RPM requirement and then balanced accordingly. Contact customer service to verify whether dynamic balancing is required.