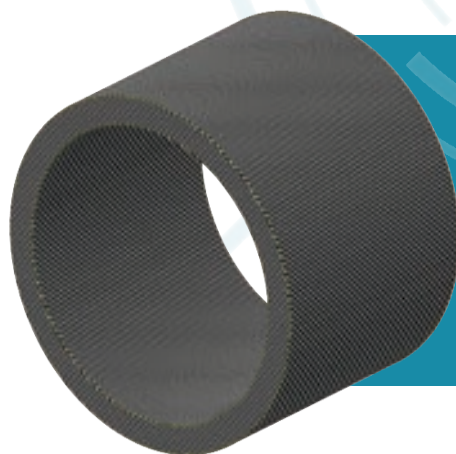
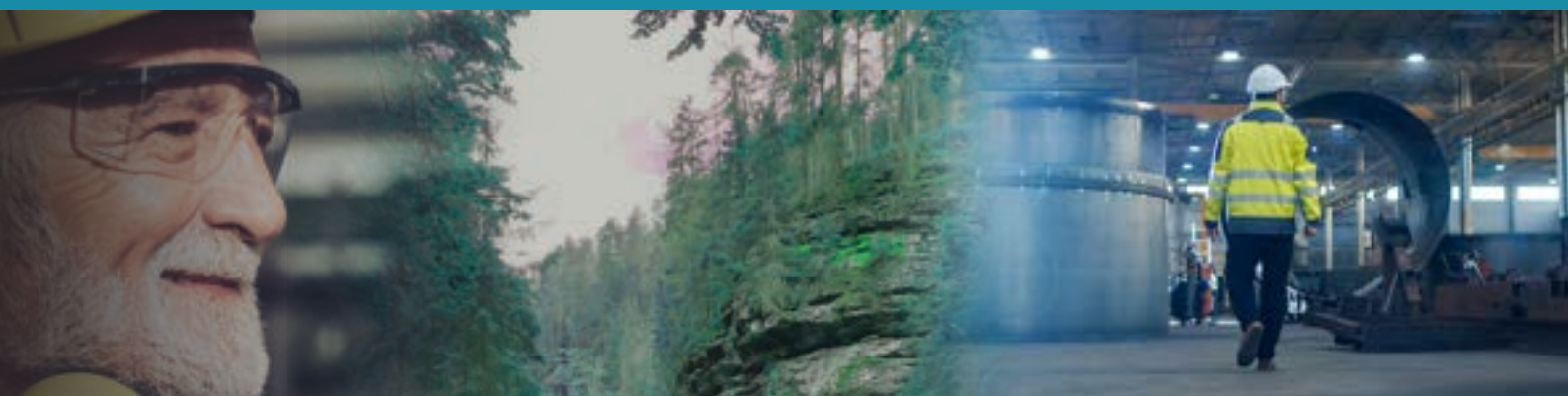




DATASHEET HOWA-COMP



Fibre Reinforced
Polymer Composite





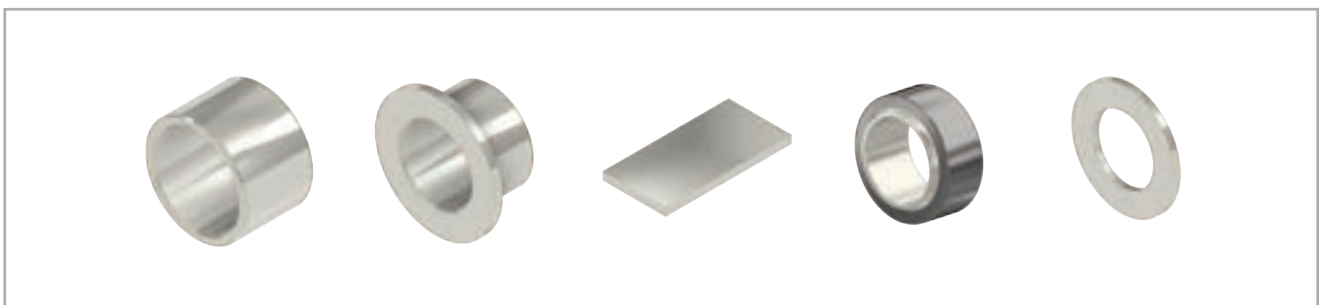
FEATURES

- High strength composite bearing material for wet and dry applications
- Self-lubricating, with low coefficients of friction
- Able to handle misalignments and shock loads
- Electrically insulating
- Corrosion resistant and non-swelling

TYPICAL INDUSTRIES

- Offshore, Subsea and Marine
- Renewable Energy
- Lifting and Material Handling
- Recreation Equipment
- Hydraulic Cylinders

AVAILABLE GEOMETRIES



BEARING PARAMETERS

Material Grade	Compressive Strength	Compressive Strength (Parallel to Lamination)	Load Capacity Dynamic (max.)	Load Capacity Static (max.)	Coefficient of Friction	Coefficient of Friction, hydrodynamic	Sliding Speed (max. dry)	PV Value	Temperature Strain		Shear Strength	Tensile Strength	Flexural Strength	E-modulus	Hardness	Water Absorption	Density	Colour
	N/mm ²	N/mm ²	N/mm ²	N/mm ²	dry		m/s	N/mm ² * m/s	min. °C	max. °C	N/mm ²	N/mm ²	N/mm ²	N/mm ²	Rockwell M.	%	kg/dm ³	
COMP 785	345	135	80	200	0.13 - 0.18	0.01 - 0.02	0.1	0.75	-70	100	135	65	140	3200	90 - 100	<0.1	1.3	Dark Grey
COMP 786	345	135	80	200	0.10 - 0.12	0.01 - 0.02	0.1	1	-70	100	135	65	140	3200	90 - 100	<0.1	1.3	Light Grey
COMP 787	310	125	60	180	0.07 - 0.09	0.01 - 0.02	0.2	1.25	-70	100	130	60	140	3200	100	<0.1	1.3	Light Grey with Layer
COMP 788	350	140	80	200	0.13 - 0.18	0.01 - 0.02	0.1	0.5	-70	150	135	65	140	3200	100	<0.05	1.3	Dark Grey

MATING COMPONENTS

Housing Bore	Tolerance	H7
Shaft	Tolerance	h7 (but others permitted due to flexibility during bearing machining)
	Hardness	Min. HB150
	Surface Roughness	Ra 0.8 - 1.6
	Material	Corrosive Environments: 1.4404 (316L), 1.4057, 1.4462 Normal Environments: 1.0503 (C45), 1.7225 (42CrMo4)