PACK-FLEX

SPECIAL PACKING FOR VALVES AND PUMPS

COMPRESSION PACKINGS MANUFACTURING

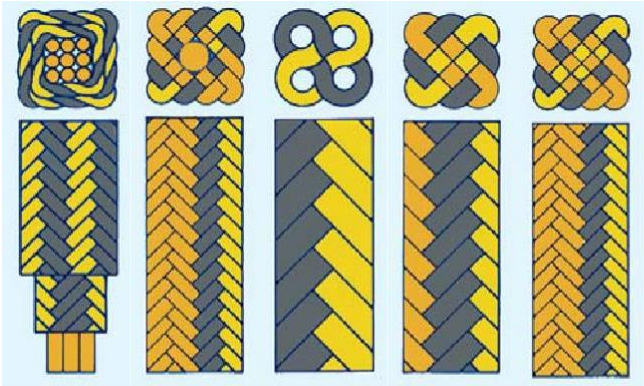
BRAIDING CONSTRUCTION

Braid over braid

The braiding machine makes cylindrical layers of yarn. The exact size is reached with braiding layers one over the other, using 12 and 16 shuttle braiding machines.

Braid over a core

The final product is made through braiding one or more layers of yarn over the core. The core may be extruded, twisted, or braided. The construction may be attained both on circuit and diagonally braiding machines.



BRAID OVER BRAID | BRAID OVER CORE | DIAGONALLY BRAIDED

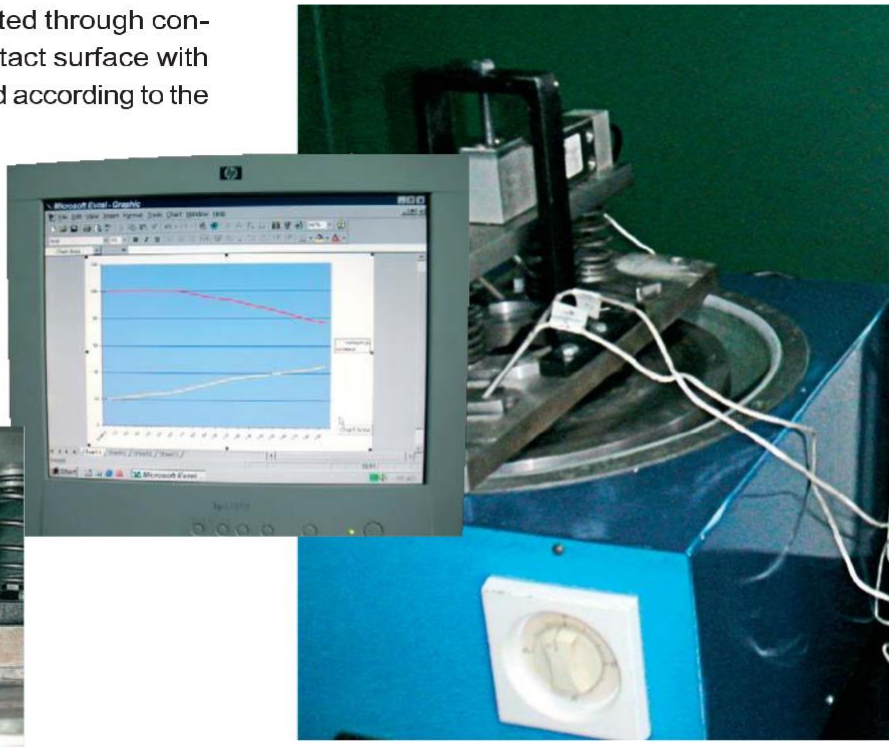
Diagonally braided

Every fiber is fixed by the others, forming thick, united structure, which cannot unbraid or break down while working. There are not separate layers, which wear out one by one, nor the braid is loosened. The diago-nally braided packings have more regular density, which is an opportunity for better lubricants' retention. Thus the produced packing is solid and flexible. Such packings are suitable for centrifugal and piston pumps, mixers, valves, compensators, etc.

TESTS AND CONTROL

The tests for reliability are conducted through control of the heat released at the contact surface with the shaft. Also, packings are jurdged according to the wear out they undergo at different shaft speeds and stiffness. Other parameters give informa-

decisions when making a choice or selection of high-quality yarns, lubricants, inhibitors and packings construction.



PACK-FLEX - STUFFING BOX PACKING

Type of packing **PACK-FLEX**	Composition		P (bar)		
	Material	Impregnation	⊛	◧	▟
2006 FDA	PTFE	lubricant	30	30	250
2005 FDA	PTFE		30	30	250
2011	PTFE / graphite	lubricant	30	80	200
2011G	PTFE / graphite	lubricant	30	100	250
0112	aramid	PTFE / lubricant	35	200	250
0112P	staple aramid	PTFE / lubricant	20	80	150
0112M	m-aramid	PTFE / lubricant	25	50	100
0212	PTFE / graphite / aramid	lubricant	30	250	250
0312	PTFE / aramid	lubricant	30	100	200
0113	carbon fibres	lubricant	30	50	200
0213	carbonised fibres	PTFE	30	50	200
2013	exp. graphite		30	200	500
3113	exp. graphite / carbon		35	250	400
6013	exp. graphite / ceramic				
0014	cotton	PTFE / lubricant	25	25	40
0114	ramie	PTFE / lubricant	20	100	100
0214	cotton	lubricant	20	8	40
0214G	cotton	graphite / lubricant	20	8	40
0215	glass				
0215H	glass	special silicate system			
1315	glass	PTFE / graphite	20	40	60
2015	glass	PTFE	20	40	60
3015	glass	graphite			200
0216	ceramic				
2017	Acrylic	PTFE	20	20	50
3017	Novoloid	PTFE / lubricant	25	25	80

S FOR VALVES AND PUMPS - TECHNICAL PARAMETERS AND APPLICATIONS

T (°C)		V (m/s)	pH	Density (g/cm^3)	Media																		
-	+				Industrial and refusewaters	Sea water	Water ; pharmaceuticalandnutritionproducts	Steam	Superheated steam	Concentrated acids	Diluted acids	Concentrated lyes	Diluted lyes	Solvents	Air, dry industrial	Acid gas	Inert gases	Oxygen	Oils and grease	Synthetic oils	Paints and varnish	Adhesive viscosemediaand	Abrasive media
200	280	18	0-14	1.6	●	●	-	●	-	●	●	●	●	●	●	●	●	-	●	●	●		▱▱
200	280	18	0-14	1.5	●	●	●	●	-	●	●	●	●	●	●	●	●	●	●	●	●		▱▱
100	280	25	0-14	1.5	●	●	-	●	-	●	●	●	●	●	●	●	●	-	●	●		▱▱▱	
100	280	25	0-14	1.65	●	●	●	●	-	●	●	●	●	●	●	●	●	-	●	●	●		▱▱
100	280	15	2-12	1.35	●	●	-	●	-	▱▱		▱	●	▱	●	●	●	-	●	●	▱	●	●
100	280	15	2-12	1.4	●	●	-	●	-	▱	●	▱	●	▱	●	▱	●	-	●	●	●	●	●
50	280	20	1-13	1.35	●	●	●	▱	-	▱▱		▱▱	▱		●	●	●	-	▱▱		●	●	●
150	280	25	1-13	1.5	●	●	-	●	-	▱	●	▱	●	●	●	●	●	-	●	●	▱	●	●
100	280	25	2-12	1.45	●	●	-	●	-	▱	●	▱	●	●	●	●	●	-	●	●	▱	●	●
60	400	20	1-14	1.1	●	●	●	●		▱	●	●	●	●	●	●	●	●	●	●	●		▱▱
60	300	20	2-14	1.2	●	●	-	▱	-	-	●	●	●	●	●	●	●	-	●	●		●	▱▱
240	650	50	1-14	1 1.3	●	●	-	●	●	▱	●	●	●	●	●	●	●	-	●	●	●		▱▱
240	650	20	0-14	1.0	●	●	-	●	●		●	●	●	●	●	●	●	-	●	●	●	-	▱
	650		4-12	0.9	●	●	-	▱	▱	-	▱	▱▱		●	●	●	●	-	●	●	●	-	-
50	140	12	5-11	1.2	●	●	●	-	-	-	▱	-		▱▱	●	●	●	-	●	●	-	-	▱
50	140	12	5-11	1.3	●	●	●	-	-	-	▱	▱▱	▱		●	●	●	-	●	●	-	-	▱
	120	10	5-9	1.0	●	●	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-
	120	10	5-9	1.1	●	●	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-
	500		6-11	0.9	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-
	700		5-11	0.9	-	-	-	▱	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-
50	280	15	2-12	1.8	●	●	-	▱	-	-	●	-		▱▱	●	-	●	-	●	-	-	-	-
50	280	12	2-12	1.9	●	●	-	▱	-	-	●	-		▱▱	●	-	●	-	●	-	-	-	-
	550	1,5	5-11	1.4	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-
	900		5-11	0.65	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-		-
50	200	10	2-12	1.3	●	●	-	●	-	-	●		▱▱	●	●	▱	●	-	●	●	-		▱▱
50	250	10	1-13	1.3	●	●	-	●	-	●	●	●	●	●	●	●	●	-	●	●	●	●	●