

# Diaval<sup>®</sup>

Diaphragm and Process Valves  
[www.diaval.com](http://www.diaval.com)



LINATEX<sup>™</sup>

THE BRUISING ANSWER TO **ABRASION**

Ref. DIP-DI-LINTAEX/IN

Diaval<sup>®</sup> introduce a revolutionary lining which may convulse the Process Industry in the 21<sup>st</sup> Century. LINATEX<sup>®</sup> properties and bonding of the lining offer an excellent behaviour against the abrasion attacks resulting in an extremely resilient and soft material.

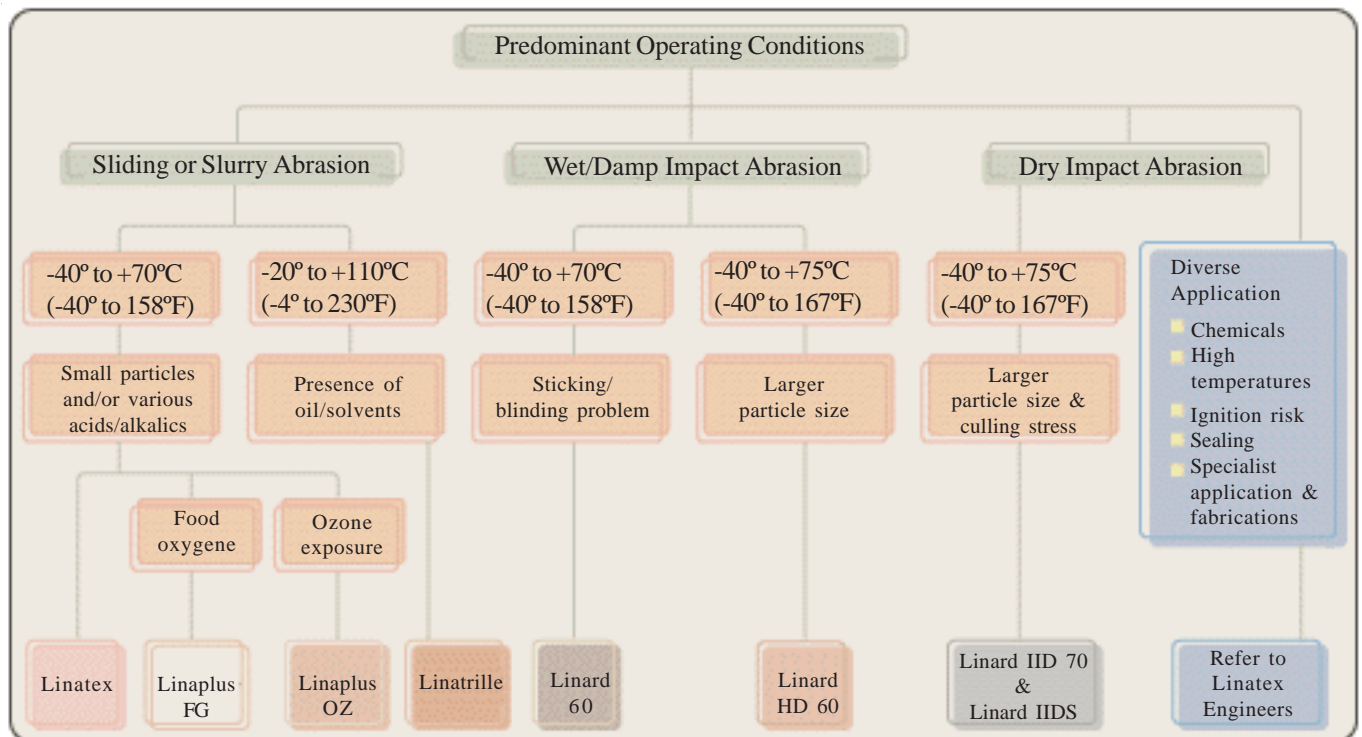
DIAVAL<sup>®</sup> hold the Know-How to use the LINATEX<sup>®</sup> bonding and use for the manufacture of diaphragms and linings for valves, usually of Straight Through design. Slurries, sludge, mining, sugar mills, cement and clay pits can benefit from the excellent durability of LINATEX<sup>®</sup>.

The below chart illustrates some of the most significant properties of LINATEX<sup>®</sup>:

Product Name	Unit	LINATEX	LINAPLUS OZ	LINAPLUS FG
Compound Code		101	102	104
Colour		Red	Black	White
Polymer		Natural Rubber	Natural Rubber	Natural Rubber
Intended Purpose		General Use	Ozone	Food Contact
		Wet Abrasion	Resistance	
Tensile Strength	psi / MPa	3850 / 26.55	3870 / 26.69	3760 / 25.93
Elongation @ Break	%	810	760	810
Tear Strength	lb/in / kN/m	250 / 43.77	230 / 40.27	300 / 52.52
Thermal Conductivity	BTU/ft <sup>2</sup> /°F/s	0.95x10 <sup>-5</sup>	-	-
Volume Resistivity	Ohm-cm	3.03x10 <sup>14</sup>		
Surface Resistivity	Ohms	1.32x10 <sup>13</sup>		
Specific Gravity		0.97	0.97	1.01
Hardness	IRHD	39	38	38
Temperature Range	°C	-40 to +70	-40 to +75	-40 to +70
	°F	-40 to +158	-40 to +167	-40 to +158
Young's Modulus 'E'	kg/cm	12 - 14		
Shear Modulus 'G'	kg/cm	approx. 4		
A.R.I. : WET	%	100	100	100
A.R.I. : DRY	%	45	45	40
Permanent Set	%	15	15	15
Resilience	% ( ±3 )	83	83	82
Compression Set	% (max)			

The life span of a valve lined with LINATEX® or any of its related compounds (LINAPLUS®....) is incredibly longer than that of a conventionally lined with Natural Rubber.  
Challenge us to install a test valve in a critical point of your plant and you will notice the point!!.

Maximum Particle Size		Minimum recommended LINATEX thickness for a given material free fall											
		0 - 2'		3'		4'		5'		6'		8'	
		0 - 0.6 m		0.9 m		1.2 m		1.5 m		1.8 m		2.4 m	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1/8 - 1/4	3-6	1/4	6	3/8	10	3/8	10	1/2	13	1/2	13	1/2	13
3/8 - 1/2	10-13	1/4	6	3/8	10	1/2	13	3/4	19	3/4	19	3/4	19
3/4 - 1	19-25	1/2	13	1/2	13	3/4	19	3/4	19	1	25	Use Linard	
2	50	1/2	13	3/4	19	3/4	19	1 1/4	32	Use Linard			
4	100	3/4	19	1	25	1 1/2	38	Use Linard					
6	150	1	25	1 1/2	38	Use Linard							



**Legend:**

- 1 Excellent
- 2 Good
- 3 Acceptable
- X Not recommended

**CHEMICAL RESISTANCE TABLE (Example only)**

	Ltx/ Lnd	Lnl	Lgd BB	SBR	CR	EPDM	FPM	CSM	Q	M.L & L.S.	S.S. 316
<b>Absolute Alcohol</b>	1	1	1	1	1	1	2				
<b>Acetaldehyde</b>	3	X	1	X	3	1	X	3	1		
<b>Acetamide</b>	X	1	1	X	2	1	2	2	2		
<b>Acetate of Lime</b>	2	2	2		2	1	X	1			
<b>Acetate Solvents</b>	3	X	3	3	X	2	X	X			
<b>Acetic Acid - 5%</b>	2	2	2	2	1	1	1	1			
<b>Acetic Acid - 10%</b>	2	2	2	2	1	1	1	1			
<b>Acetic Acid - 20%</b>	2	2	2	2	1	1	2	1			
<b>Acetic Acid - 30%</b>	2	2	2	2	1	1	3	1	2		

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