

PHANTOM MATERIAL COMPATIBILITY WITH SPEAG LIQUIDS

INTRODUCTION

SPEAG offers a wide range of tissue simulating liquids. These liquids are based on various ingredients depending on their frequency range. The below table shows compatibility of these tissue simulating liquids and various phantom materials.

COMPATIBILITY TABLE

- Y= fully compatible** with the tissue simulating liquid. Long time exposure is not critical.
- P= partially compatible.** It is essential to keep the exposure time to a minimum and to rinse and clean the item after exposure to the respective tissue simulating liquid. Liquids can have a softening effect on the material. Fiber reinforced material may reduce this effect. Continuous exposure will reduce the item life-time considerably.
- R= restricted** compatibility with the respective tissue simulating liquid. Liquids can enter and damage the material structure. Short time exposure (e.g. few hours) is possible given that the item is thoroughly rinsed and dried after each exposure.
- N= not compatible** with the respective tissue simulating liquid. Short time exposure can cause irreparable damage to the item exposed.

SPEAG MSDS	772-SLAAx0yy			772-SLAAx1yy		772-SLAAx4yy		772-SLAAx6yy		772-SLAAx6yy	
	Liquid Type										
Phantom Material	B 900	HSL175V2 to HSL900V2	MSL300V2 to MSL900V2	HSL1450V2 to HSL2450V2	MSL1450V2 to MSL2450V2	HBBL3500-5800V5	MBBL3500-5800V5	HBBL1350-1850V3 to HBBL1900-3800V3	MBBL1350-1850V3 to MBBL1900-3800V3	HBBL30-250V3	MBBL125-250V3
PEEK	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
POM	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PTFE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Glass	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Phenol resin plates	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Silicone *	Y	Y	Y	Y*	Y*	Y	Y	Y	Y	Y	Y
Acrylic resin *	Y	Y	Y	Y*	Y*	Y	Y	Y	Y	Y	Y
Polyethylene	Y	Y	Y	P	P	Y	Y	Y	Y	Y	Y
Vinylester, glass fiber (VE-GF)	Y	Y	Y	P	P	Y	Y	Y	Y	Y	Y
Polypropylene, glass fiber (PP-GF)	Y	Y	Y	P	P	Y	Y	Y	Y	Y	Y
Epoxy resin, glass fiber reinforced	Y	Y	Y	R	R	Y	Y	Y	Y	Y	Y
PMMA (Acrylic glass, Plexiglass) **	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y

NOTES:

* Liquids may cause damage by entering adhesive joints or bonding surfaces.

** Damage of material macro structure possible.