

Major Applications for DeL Piezo Materials

DL-10	is a modified Bismuth Layer Structure compound. It is formulated for using up to 500°C high temperature sensor applications such as for accelerometers, force and load sensors, shock and impact sensors, vibration and flow meter sensors etc..
DL-20	is a modified Lead Titanate compound. Low dielectric constant, very low K_p and high K_t , high Q_m , high coercive field and high stiffness make this material unique for high driving, high temperature and high frequency etc. transducers
DL-21	is a modified Barium Titanate compound. Its high stiffness and low dissipation factor under high electric field make it special for sonar etc. high power high driving transducers
DL-31	is a modified Lead Metaniobate compound. It's low Q_m , low dielectric constant, high Curie point and high coercive field make it particular useful for high temperature, high frequency etc. transducers
DL-32	is a modified Lead Metaniobate compound. Its low Q_m , high coercive field, high loop gain, moderate high dielectric constant and d_{33} make this material special for NDT etc. industry applications
DL-33	is a modified Lead Metaniobate compound. Its high Q_m , high anisotropic piezoelectric coupling factors, high K_t , very low dielectric constant and low density make this material distinctive for high frequency etc. transducers
DL-40	is a modified hard PZT for low dielectric constant required high driving transducers and for high g_{33} preferred accelerometers etc.
DL-41	is a modified hard PZT for relative low dielectric constant required high driving transducer applications and for high g_{33} preferred accelerometers etc.
DL-42	is a modified hard PZT for medium low dielectric constant required high driving transducers and for relative high g_{33} preferred transducers etc.
DL-43	is a modified hard PZT. It is dedicated to low dissipation factor, high Q_m , high coercive field, high coupling and high stiffness required high power high driving etc. transducers
DL-43HD	is a high density version of DL-43. In addition to the advantage of DL-43, it is dedicated to higher density required high frequency and high power high driving etc. transducers
DL-44	is a modified hard PZT. It is designed for higher dielectric constant, high Q_m , high coercive field, high coupling and high stiffness required high power high driving transducers etc.

DL-45	is a modified hard PZT. It is developed for higher dielectric constant, high coupling and high stiffness required high power high driving etc. transducers
DL-45HD	is a modified hard PZT for higher dielectric constant required and much higher power handling capability etc. transducers. It can handle at least two times power of DL-43
DL-46	is developed for high g_{33} and g_{15} etc. preferred hard PZT
DL-47	is a modified PZT dedicated for extremely high power high driving etc. transducers with at least 2 times higher power handling capability than DL-43
DL-48	is a modified hard PZT developed for extremely high dielectric constant, high Q_m , high stiffness and low dissipation factor required high frequency transducers etc.
DL-50	is a modified soft PZT for general purpose. It is dedicated to low aging rate and extremely stable performance requirement etc. transducers
DL-50HD	is a high density version of DL-50. It is dedicated to low aging rate, extremely stable performance and high frequency requirement etc. transducers
DL-51	is a modified soft PZT designed for relative high dielectric constant required hydrophone etc. receiver transducers
DL-52	is developed as high dielectric constant and high Curie point soft PZT particular useful for receiver transducer and actuator etc. applications
DL-52HD	is a high density version of DL-52 for high dielectric constant, high Curie point required receiver transducer and actuator etc. applications
DL-53	is a modified soft PZT dedicated for popular used high dielectric constant, reasonable high Curie point required receiver transducer and actuator etc. applications
DL-53HD	is a high density version of DL-53 for very high dielectric constant, high coupling factor and high d_{33} required receiver transducer and actuator etc. applications
DL-54HD	is a modified soft PZT developed for very high dielectric constant, high coupling factor and high d_{33} required receiver transducer and actuator etc. applications
DL-60HD	is developed as extremely high dielectric constant, high d_{33} and high coupling required receiver transducers and actuators etc.
DL-61HD	is dedicated for extremely high dielectric constant, high d_{33} , high coupling required and environmental temperature controllable receiver transducers and actuators etc.