



## APPLICATIONS

Poly (2-ethyl-2-oxazoline) has been used commercially in the following applications:

- STEEL QUENCHING FLUID:** Active ingredient in aqueous fluid used to quench hot metal products. Provides significant safety and environmental benefits over traditional oil-based quenches.
- ADHESIVE:** Main binding agent in water-soluble, hot-melt and pressure-sensitive adhesives. Excellent thermal stability allows this polymer to be used where polyvinyl cannot be.
- CERAMIC BINDER:** Organic binder for advanced ceramic greenware. Has excellent binding strength but low concentration build-up. Polymer also possesses low ionic impurity content compared to polyvinyl alcohol.
- FIBERGLASS SIZING:** Aqueous solution that is applied to fiberglass to promote adhesion of polymers.

Other potential applications include lubricants, coatings, polyethylene imine synthesis, plasticizers, barrier film, and compatibilizer.

Overall, poly (2-ethyl-2-oxazoline) can be used in diverse applications, particularly where water solubility and thermal stability are highly desired.

