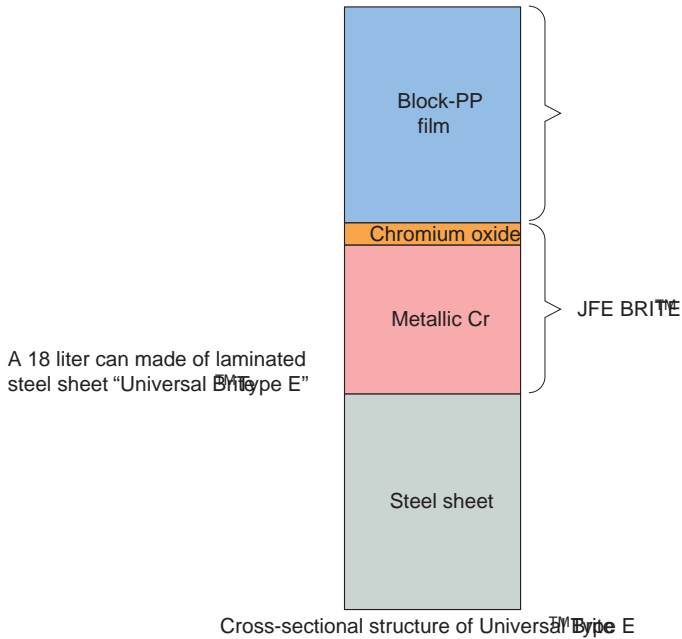
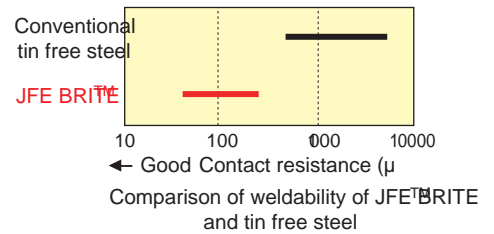


Can & Laminated Materials

Can & Laminated Materials Research Department takes charge of all fields of can material



Cross-sectional TEM image of block-polypropylene film



Integration of plating technology and lamination technology enables optimum design of the surface properties required for steel cans, such as formability, corrosion resistance, weldability, printability and durability. Universal Brite Type E (Ecology) is a unique hybrid of tin free steel with good weldability (JFE BRITE) and block-polypropylene film with good corrosion resistance at bent part. This well-designed product meets the specific needs of 18 liter and pail cans.



Various performances such as formability or stiffness are required for steel can materials. JFE Steel satisfies customer's needs by optimization applied to respond to customer's requests such as designing of can shape or evaluating of can strength. These techniques also lead to proposals for new steel cans using new materials.

Strength analysis

Analyses by Finite element method (FEM)

Crystal orientation map

Preferred orientation (texture) showed by orientation distribution function (ODF)

Crystal orientation analyses by electron backscattering pattern (EBSP)

Forming test samples