ABSTRACT: The Forming Limit Stress Curve (FLSC) approach of Arrieux is one approach which takes the
forming history into account when judging forming severity in sheet forming processes. Theoretical
considerations and consequences of the intrinsic characteristic of FLSCs are outlined. Predicted FLCs for
A-K steel and Al 6111-T4 are presented assuming different strain paths. A comparison with experimental
FLC data is given and the predictive quality of FLSCs is investigated. The limitations of Arrieux´s FLSC
approach using isotropic hardening are discussed.