

Bibliography

- [1] Konieczny A., Henderson T. On Formability Limitations in Stamping Involving Sheared Edge Stretching. SAE Technical Paper 2007-01-0340, 2007
- [2] K. Mori, Y. Abe, Y. Suzui. Improvement of stretch flangeability of ultra high strength steel sheet by smoothing of sheared edge. *J. Mater. Process. Tech.* 210 (2010) 653–659
- [3] Silva C.R.M., Silva F.J.G., Gouveia R.M. Investigations on the edge crack defect in Dual Phase steel stamping process. *Procedia Manuf.* 2018, 17 pp. 737–745
- [4] M.S. Walp MS. Impact Dependent Properties of Advanced and Ultra High Strength Steel. *SAE Technical Paper 2007-01-0342*, 2007
- [5] Larour P., Pauli H., Kurz T., Hebseberger T. Influence of post uniform tensile and bending properties on the crash behaviour of AHSS and press-hardening steel grades. *Proceedings of the IDDRG2010 (Graz, Austria) 2010*
- [6] Larour P., Naito J., Pichler A., Kurz T., Murakami T. Side impact crash behavior of press-hardened steels-correlation with mechanical properties. 5th Int. Conf. Hot sheet metal forming of high performance steel (CHS2) (Toronto, Canada, May 31- June 3 2015) pp 281-289
- [7] Link T.M., Hance B.M. Axial and Bending Crash Performance of Advanced High-Strength Steels. *Int. Symp. on New Developments in Advanced High-Strength Steels. Keystone, Colorado, USA. 2017*
- [8] Cotterell B., Reddell J.K. The Essential Work of Plane Stress Ductile Fracture. *Int. J. Fract.* 1977, ●● pp. 267–277
- [9] Kaufman J.G., Knoll A.H. Kahn-Type Tear Tests and Crack Toughness of Aluminum Sheet. *Metals Research and Standards*, 1964, pp. 151–5.
- [10] Frómeta D., Lara A., Molas S., Casellas D., Rehrl J., Suppan C. et al. On the correlation between fracture toughness and crash resistance of advanced high strength steels. *Eng. Fract. Mech.* 2019, 205 pp. 319–332
- [11] Casellas D., Lara A., Frómeta D., Gutiérrez D., Molas S., Pérez Ll. et al. Fracture Toughness to Understand Stretch-Flangeability and Edge Cracking Resistance in AHSS. *Metall. Mater. Trans., A Phys. Metall. Mater. Sci.* 2017, 48 pp. 86–94
- [12] Frómeta D., Lara A., Grifé L., Dieudonné T., Dietsch P., Rehrl J. et al. Fracture resistance of advanced high strength steel sheets for automotive applications. *Metall. Mater. Trans., A Phys. Metall. Mater. Sci.* 2021, 52 pp. 840–856
- [13] Frómeta D., Parareda S., Lara A., Molas S., Casellas D., Jonsén P. et al. Identification of fracture toughness parameters to understand the fracture resistance of advanced high strength sheet steels. *Eng. Fract. Mech.* 2020, 229 p. 106949
- [14] D. Frómeta, S. Parareda, A. Lara, L. Grifé, I. Tarhouni and D. Casellas A new cracking resistance index based on fracture mechanics for high strength sheet metal ranking 2021 IOP Conf. Ser.: Mater. Sci. Eng. 1157 012094
- [15] ISO 16630:2017, *Metallic materials — Sheet and strip — Hole expanding test*

- [16] Schneider M., Eggers U. 2011 Investigation on punched edge formability Proceedings of International Deep Drawing Research Group 2011 conference (Bilbao, Spain, June 5-8, 2014)
- [17] Atzema E., Borsutzki M., Braun M., Brockmann S., Bülter M., Carlsson B. et al. 2012 A European round robin test for the hole expansion test according to ISO 16630 New Development in Sheet Metal Forming, Int. Conf. (Fellbach, Germany, May 23-24, 2012) pp 171-184
- [18] ISO 9513, *Metallic materials — Calibration of extensometers used in uniaxial testing*
- [19] ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*
- [20] ASTM E399, *Standard Test Method for Plane-Strain Fracture Toughness of Metallic Materials*
- [21] ASTM E338, *Standard Test Method of Sharp-Notch Tension Testing of High-Strength Sheet Materials*
- [22] ASTM B871, *Standard Test Method for Tear Testing of Aluminum Alloy Products*