

EN 16726 vs. MSZ 1648

Parameters	MSZ 1648	Note	EN 16726	Note
CO ₂ content (%)	-	It was not identified previously	2,5	At network entry points and interconnection points the mole fraction of carbon dioxide shall be no more than 2,5 %. However, where the gas can be demonstrated not to flow to installations sensitive to higher levels of carbon dioxide, e.g. underground storage systems, a higher limit of up to 4 % may be applied.
Total sulfur content (mg/m ³)	100	H ₂ S content from total max. 20	20	For sulfur in high pressure networks and on interconnection points the maximum acceptable sulfur content for conveyance is 20 mg/m ³ , where in high pressure networks non-odorized gas is current practice.
CH dew point	+4 °C	4 MPa (40 bar) absolute pressure	-2 °C	0,1 - 7 MPa (1 - 70 bar) absolute pressure
Water content / Water dew point	0,170 g/m ³	Operational pressure	-8 °C	7 MPa (70 bar) pressure or maxim. operational pressure if it is less than 7 MPa (70 bar)

A-deviation and Investment necessities

A-deviation

As parameters set out in the decree are deviating to the respective parameters defined in the new standard, during the public enquiry process the Hungarian Standards Institution (hereinafter: HSI) representing Hungary submitted an application for A-deviation for resolving the conflict. The document proposed to keep the existing parameters in effect also after the new standard is introduced. CEN TC 234 WG 11 accepted the application for A-deviation, so it will be included into the new standard. The Hungarian gas market players set up an operative working group (hereinafter: OWG) with the goal to secure conditions for ensuring full compliance with the new standard within 3 years, and to terminate the A-deviation by this date.

Investment necessities because of strict CH dew point requirements (60 – 65 MEUR):

- Hajdúszoboszló UGS / install Gas Processing Unit including Refrigeration System
- Kardoskút UGS / install Gas Processing Unit including Refrigeration System
- Zsana UGS / upgrade the existing Gas Processing Unit including Refrigeration System
- Pusztaederics UGS / upgrade the existing Gas Processing Unit

Notes:

- The projects listed above to be managed by Storage System Operator are explicitly necessary to improve its Process System to comply with the significantly stricter CH dew point expectations.
- The implementation time of the mentioned projects are about 2-3 years.
- The investment costs are high with negative ROI taking into account the present market situation and long term forecasts.
- Among some positive aspects the new standard has serious negative impacts for the gas storages.