

Threaded coupling connection for smooth casing pipes consists of a pipe with a cut end, featuring an external tapered thread with a trapezoidal profile and abutment and guide surfaces, and a coupling with an internal tapered thread with a trapezoidal profile and abutment and guide surfaces. The external and internal conical threads have a taper of ϕ 1:8 (12.5%); the profile of the pipe external conical thread and the profile of the coupling internal conical thread have a thread pitch of P-3 threads per inch (8.467 mm). The profile height h_1 of the pipe external conical thread is 1.95÷2.05 mm, and the profile height h_2 of the coupling internal conical thread is 2.15÷2.24 mm; the profile of the pipe external conical thread has a guide surface inclination angle α in the range of 29.5÷30.5°, and the profile of the coupling internal conical thread has a guide surface inclination angle β in the range of 29.5÷30.5°.