

# عنوان مقاله:

The Fractography of API &LXYo Linepipe Steel Plates Following Conducting the Tensile Test

# محل انتشار:

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### خلاصه مقاله:

Study of various inclusions following conducting the tensile test is the purpose of this paper. In this regard, four API &LXYo linepipe steel plates were processed using different accelerated cooling rates and finish rolling temperatures of the thermo-mechanical controlled process. Tensile test and microstructure characterization were executed. The results show that subjecting plates to different schedules would fine the microstructure as well as promote the mechanical properties. Furthermore, fractography by scanning electron microscopy showed various-inclusion families of oxides, sulphide, and silicate. Identifying these inclusions is beneficial since by detecting their possible resources and then .eliminating, the final properties will be enhanced

کلمات کلیدی: Thermo-mechanical controlled process, high-strength low-alloyed steel, fractography, inclusion, API ۵LXY•, pipeline

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