Vacuum insulation panels have higher efficient materials than the insulation materials which have known their heat insulation properties. Heat insulation could be provided by vacuum insulation panels ten times according to conventional insulation materials. The most important difficulty of growing up for vacuum insulation panels is high production costs at present. When this situation was analyzed, it is known that core materials are most important elements which affect to cost. Production of core material at more economical conditions will reduce vacuum insulation panels’ production costs significantly, and then VIP’s usage will be growing up increasingly. Expansion of applications brings about energy efficiency and economy and will create significant added value to Turkey’s economy, in addition this it will be more positive contribution to the environment. VIP is not widely used as insulating material in our country. The main reasons for this situation, VIP?s are unknown, its core can’t produce domestically, and its imports are not economical for using in industrial. In addition, scientific researches and studies have been limited about VIP. Using of the VIP will become widespread in our country with the production of economic core. Wide spreading of the application will provide energy efficiency and conservation. In addition the country's economy will create significant added value, energy conservation will also be a very positive contribution to the environment. In this paper, scientific research findings about VIP's physical, structural, performance characteristics and production methods of VIP have been presented in summary so far in order to contribute to the scientific and industrial research. VIP's performance and costs have been compared with conventional thermal insulation materials.