The discovery of intra-industry trade (IIT) in the post-second World War period has been taken as an indication of a major change in the international trade. The main aim of this study is to analyze the structure of Turkey’s foreign trade on the axis of IIT theory which increasing its importance permanently. In this context, Turkey’s IIT levels have been calculated by using 3 digit level of SITC data and Grubel-Lloyd index during the period of 1990-2013. As a result of this measurement, which made with Grubel-Lloyd Index (weighted average), value of intra-industry trade in Turkey's manufacturing industry has been observed an increasing trend for 23 years. However, it is observed that intra-industry trade value is high in low or medium-tech goods, when analyzed separately for each manufacturing industry group.