

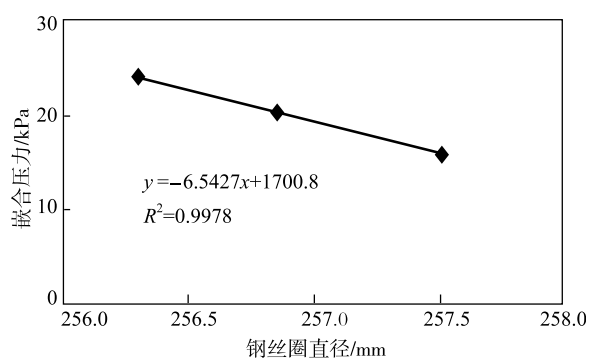


图4 嵌合压力与钢丝圈直径的关系

表4 3.00-10摩托车轮胎嵌合压力与胎圈包布材质的关系

胎圈包布	嵌合压力/ kPa (psi)	胎圈装配 破坏点/个
450dtex/1 × 450dex/1网孔锦纶包布	158.6 (23)	1
斜交胎圈包布	179.3 (28)	1
无	158.6 (23)	3

缩性比斜交胎圈包布好,但轮胎嵌合压力却与无胎圈包布一致,原因可能是450dtex/1 × 450dex/1网孔锦纶包布降低了胎圈部位摩擦力。另外,从轮胎装拆过程发现,有胎圈包布轮胎胎圈不易损坏,可以有效保护轮胎胎圈。

3 结语

轮胎装配性能与胎圈的可压缩性、摩擦性能相关。胎圈具有较好的压缩变形性能时,装配轮胎胎圈越过轮辋凸峰后形成过盈配合,从而保证轮胎行驶安全性能。胎圈的工艺结构与轮胎使用性能紧密相关,因此应依据轮胎的性能要求和使用条件,选择合适的胎圈结构和材料。轮胎装配困难时,可在胎圈部位涂抹硅油润滑剂,以降低装配嵌合压力。

Analysis of Influencing Factors on the Fitting Pressure of Tire Assembly

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Abstract: The effect of bead wire, bead and tire rim on the fitting pressure of tire assembly was analyzed. The bead diameter showed a strong linear correlation with the rim diameter. When the rigidity of the bottom part of the bead wire was high, the tire assembly process became difficult. When the diameter of the bead wire increased, the fitting pressure was reduced. Besides, better compression deformation capability of the tire bead was beneficial to the tire assembly process.

Keywords: fitting pressure; assembly; tire; tire rim; bead; bead wire

信息·资讯

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顾安