

Review of Sports apparel and wearable technology and study of properties of the sports fabric SUDESH

Abstract: With the developments of modern games or sports, gaming science and involvement of technology, modern sportswear plays vital role in all kinds of games. With fashion and regional or national beliefs and other aspects of the celebrations for player's movement characteristics, to provide protection and comfort to



players in satisfying the players' psychological and physical needs, and further stimulate the potential and performance of players, laid the material foundation for modern sports and players' own growth. Sports today are perceived as a "lifestyle" and part of day to day life by people across all age groups, and they seek suitable, fashion able and durable clothing and footwear

Keywords: Modern sports, Sportswear, Design

1 Introduction

Modern sportswear as a necessary part of all the games, for sports and players themselves, it plays a practical protecting and comfortable role. Especially in all events , which reflects the significance of sportswear is more lavish. Sportswear plays a basis supporting and protective effects on players. At the same time, it also reflects the understanding and characteristics of a country or a nation to sports. Therefore, the design of modern sportswear has the presentation of nationality, rationality and sports consciousness levels.

2 Important Role of Sportswear for Players

Effect of sportswear for players, along with the development of modern games is more and more important. Especially under modern sports idea in "comfort, faster, stronger and performance", modern sports develop to the more competitive, difficult and tough, that leads to design and production of sportswear play a more important role for players.

2.1 Protection

Protection is the foremost role of sportswear. In the actual gaming conditions, established is in three aspects: the protection to player's physical body parts. Sportswear in addition to beauty or fashion itself is to protect the player's body. The protection is for players' body temperature. Sportswear, whether material or its production is breathable and wetting and other effects, can as soon as possible to protect the body temperature of players after movement, in addition to players sportswear also plays a protective role, such as movement clothing itself has be tensile, can reduce the muscle or ligament injury, such as





sportswear itself is strong, can play a stabilizing role, even under the action of external force, can protect the body against injury.

2.2 Comfort

Sportswear's comfort comes from some of the various aspects, such as one is the comfort in fabric. The sportswear is a choice that should have breathability and sweat absorption etc. Even in the high intensity exercise, a lot of sweat will not cause more negative feelings to players. Secondly Elastic comfort, such as sportswear stretch, let the players in the extreme body parts movement situation, still will not produce discomfort, so that they can exercise or play relatively freely. So the movement comfort is reflected in other aspects. In specific game projects sportswear function comfort, which can be the other aspect namely function comfort. For example, the water based games ,need sports wear to display specific wet resistance, let players don't feel physical discomfort caused by water.

3 Design Characteristics of Modern Sportswear

In order to meet the needs or goals of the development of modern sports, modern sportswear design must be based on the development of modern sports reality, explore the fashion statement, practical and prospective characteristics of modern sportswear. In the prime prerequisite should to ensure its practical value, and then to seek more other additional value, realization the synchronization development of clothing and sports.

3.1 Practicability

Because of the developments in the modern sports, the concept of designs of modern sportswear must also be based on practical and reality, to actively carry out expanded design improvement. The utility, is expected in various aspects of different sports, for example in basketball or cricket, in its body clothes it have clearly differences; also show practicality in its function, clothing such as the swimmer's clothing or gymnastics players' clothing, it should have more water absorption and not to let players feel wet due to water, apart from differences it also have common utility like more: flexibility, comfort ability and protectiveness and also sturdiness. Ruggedness, the sportswear itself strong, avoid that the athlete's rough movements. Sweat absorption. Both in their daily training, or game play, players because of the need to do well. Color stability, the sportswear color itself, not because of the sweat or other water wet condition, appeared to fade, will not only lead to lose its proper suggestive function of its sportswear itself, its color even cause certain harm to the players psychological skin and psychology.

3.2 Fashion

Continuous development with in sports and age should reflect the pursuit of fashion concept in the new period. It is mainly reflected by sportswear fashion design. More forward-looking can be based on the development in the domestic and international fashion trends in the field, make a prospective design, based on satisfying the players that may lead to the fashion trends. At present, the sports and fashion design has been to a more mature level. As a sportswear pattern design, there is a very close relationship often with the a the country or region and the player it self. For example, sportswear of India multi by blue and white collocation, and the pattern are tricolors. This has a direct relationship with the India traditional tricolor belief, and has a sense of unity and harmony. In the process of costume design, and Of course, the patterns and colors, not only to bring the audience dynamic aesthetic feeling, but also can bring passion of player's faith and excite proud of the national feeling, the sense of collective honor.





3.3 The choice of fabric

In the choice of fabric for sportswear, because the movement will produce a lot of sweat, stretching's. Now sportswear styles constantly upgrading, in the choice of fabric are constantly changing, there are a lot of fabric selection waterproof fabric, an elastic fabric and so on, for different purposes, different styles and the choice of the use of different fabrics, one of the most important basic elements and sportswear design. While climbing, rock climbing sports chooses some loose, waterproof, sunscreen outdoor sports for the fabric.

4 The Developing Trend of Indian Sportswear Designs

India's sportswear design in the future development, is supposed to be based on international standards, learn from experience with the world as the basis, understand the local clothing characteristics, making local sportswear suitable for our country as the main task, also want to pay attention to the clothing brand effect. Better, faster development of India's sports apparel industry.

5. Understand of Indian clothing characteristics.

The rise and development of sports industry, the sports wear must be suitable for players. As sports apparel designers we must understand the characteristics of our clothing industry and combined it with the popular trend nowadays.

Conclusion :

- 1. Sports textile must have comport ability.
- 2. It should be light as best as possible.
- 3. It also provides superior strength and durability.
- 4. The athletics & the leisure activities for their better performance in the sports.
- 5. Must have fast colors.

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