

Product Specification

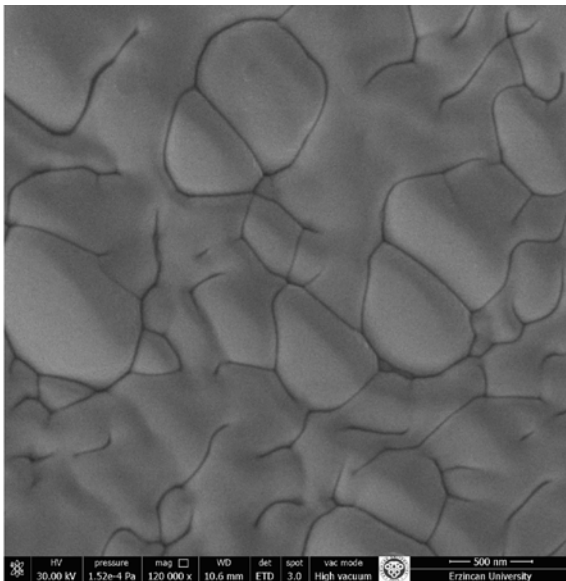
PVD Coating

HardCut

Code:90010

Characterization

Structure



Compact nanostructure

Typical Properties

(Substrate: M2 HSS)

(a) Thickness (μm) 2 a 5

(b) Microhardness (HV 0,05) 4100

(c) Ultra Microhardness (GPa) 43

(d) Friction Coefficient (DIN 100 Cr6) 0.2

(e) Critical Adhesion Load (N) 57

Elasticity (GPa) 350

Maximum Working Temperature (°C) 800

Colour Grey

General Characteristics

Coating with extreme hardness associated with low friction coefficient. General wear applications especially involving abrasive and adhesive wear.

Typical Applications

Cutting Tools: Cutting of abrasive materials with adhesion to the cutting tool – Aluminium with silicon, carbon fibre composites etc.

Injection Moulds: Specially designed for moving components with little or absence of lubrication. Wear protection of moulding surfaces. Demoulding applications.

Forming Tools: General applications. Stamping and forming. Specially designed for adhesive materials like aluminium.

Reference Standards: (a) Pr EN 1071-2; (b) ASTM E 384-99; (c) Pr ENV 1071-7; (d) ASTM G 99-95; (e) Pr EN 1071-3

Year: 2018