



# Viper Carbide & Metals, Inc.

## Carbide Rolls Grade - VCA15

### Chemical Content (Wt/Wt %)

WC	85%
CoNiCr	15% Binder



### Physical and mechanical properties

Density (g/cm <sup>3</sup> )	ISO3369	13.90-14.00
Hardness HRA	ISO3878	84.0-85.0
TRS(N/mm <sup>2</sup> )	ISO3327	≥ 2400

### Micro Structure

Micro porosity	ISO4505	
A (<10 μm)	:	02
B (10-25 μm)	:	02
C	:	00

Grain Size (micron)	ISO 4499 :	2.4 – 3.2 μm
η phase	ISO 4499 :	E00

### Application:

Hot Rolling

