

**FUSETEC****HOT METALLIZING POWDER****DESCRIPTION**

**Fusetec hot metallizing powders** are used for rebuilding and hardfacing steel, cast iron, stainless steel and nickel alloy parts subjected to corrosion, abrasion, impacts and high temperature oxidation. **Fusetec** powders are produced through modern metallurgical manufacturing methods for high quality output.

PRODUCTS	COMPOSITION	DESCRIPTION
<b>Fusetec F-920</b>	Ni - Cr - B Fe - C - Si	<b>Very high nickel base</b> universal alloy for rebuilding parts requiring maximum machinability. Excellent for thin coatings and underlaying before hardfacing. Ideal for molds, dies, valves, camshafts, gate valve components, etc. <i>Slightly carburizing flame.</i> <b>Hardness : 15 – 20 HRC.</b>
<b>Fusetec F-940</b>	Ni - Cr - B Fe - C - Si	<b>Nickel-chromium</b> base alloy for <b>thin layer and/or multipass</b> rebuilding and hardfacing. Excellent protection against frictional wear and superior corrosion and heat resistance. Machinable with carbide tools. Ideal for molds, pump components, crankshaft, shafts, etc. <i>Slightly carburizing flame.</i> <b>Hardness : 36 – 43 HRC.</b>
<b>Fusetec F-960</b>	Ni - Cr - B Fe - C - Si	<b>Nickel-chromium-boron</b> base alloy for thin hardfacing layers. <b>Maintain a good high temperature hardness.</b> Exceptionally smooth deposits. Excellent protection against wear by abrasion, heat, impacts and corrosion. Machinable by grinding only. Ideal for cams, augers, knives, tool steels, etc. <i>Slightly carburizing flame.</i> <b>Hardness : 58 – 63 HRC</b>
<b>Fusetec F-968</b>	Ni - Cr - W Fe - C - Si - B	Nickel base alloy with <b>high tungsten carbide particle content</b> providing extremely high abrasion resistance. Maintain a good high temperature hardness. Unmachinable. Ideal for mixer blades, augers, slide bars. <i>Slightly carburizing flame.</i> <b>Hardness (matrix) : 60 HRC (+WC)</b>

Note: With F-960 and F-968 powders, use F-920 or F-940 powder as underlaying if the thickness of the hardfacing required is above 3 mm (0.12”).

**For more informations contact the FSH Welding Canada Technical Departement.**

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*Specialized welding alloys and technology. For technical assistance or for ordering:*

**FSH WELDING** Canada

Membre de / Member of SELECTARC GROUP - FRANCE

info@fsh-welding.ca  
www.fsh-welding.ca

2204, 46<sup>e</sup> avenue  
Lachine (Mtl),  
Québec  
Canada H8T 2P3

Tél : 514.631.7670  
1.800.361.9097