



General description

NM Tooling 179 V / NM Hardener 2962 is a heat-resistant metalpowder filled epoxy designed for manufacturing of press-tools.

The tools can either be made by a direct casting in a negative mould or by working with casted blocks. Surfaces that have been worked can be polished.

NM Tooling 179 has a very low reactivity which means that the heat progress during the curing can be kept on a low level. The slow curing means that the air mixed in comes out before curing.

Curing process

Let it cure for 24 hours by room-temperature, then demould. Then postcure in oven. The temperature should be ramped slowly up to 120°C. The timecycle depends on the tool-size.

A tool with a weight of 2 kilogrammes could need a increase in temperature of approx. 0.3°C/minute.

Typical applications:

- Manufacturing of press-tools

Typical properties

Resin:

NM Gjutharts 179

Hardener:

NM Härdare 2962

Mixing ratio:

Resin-Hardener 100-10 by weight

<i>Density:</i>	1732 kg/m ³
<i>Potlife 100g 20°C:</i>	~3 hours
<i>Compressing strength:</i>	130 MPa
<i>Flexural strength:</i>	80 MPa
<i>E-modulus:</i>	7.5 GPa
<i>HDT:</i>	~120°C
<i>Normal packing:</i>	5.0 + 0.5 = 5.5 kg
<i>Cleaning solvent:</i>	Acetone

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