



Calidria ASBESTOS

UNION CARBIDE CORPORATION • METALS DIVISION • P. O. BOX 579 • NIAGARA FALLS, N.Y. 14302 • TEL: 716-278-3376

THICKENING AGENTS
FOR NITROCELLULOSE AND ALKYD LACQUERS

The information on the following pages is a translation of work done in the laboratories of our European Distributor. RG-244 is compared to Bentone 27, 34 and 38.

A07885

Bentone 27, 24 and 38 were tested together with RG-244 for their properties as thickening agents. An NC-lacquer and an alkyd-lacquer were used. From the Bentone-products a 10% paste was prepared in a mixture alcohol-xylol. The paste and the RG-244 were dispersed with a dissolver for 10 minutes at 2,000 r.p.m. All products could be dispersed very easily.

The concentrations of the thickening agents were:

in NC-lacquer 1.6%

in alkyd-lacquer 0.8%

After a 5-day storage test Bentone 27 in NC-lacquer showed a soft settlement, while all the other samples were perfectly stable.

As can be seen from the attached graphs, the thickening effect of RG-244 was much higher than that of the Bentone-types.

One obvious advantage of RG-244 is that it can be incorporated directly.

Recipe for the Bentone Paste

Bentone	10%
Methanol	10%
Xylol	75%
Anti-Terra U	5%

A07886

Nitrocellulose Lacquer Formulation

Non-Polishable Flat Nitrocellulose Lacquer NC 223

Nitrocellulose, Normtype 24 E (wetted with 35 % Isobutanol) (WASAG-Chemie)	125.0
Heso-Alkyd 40 E, 60 % in Xylol (Hendricks und Sommer)	208.0
Palatinol BB (BASF) = butyl benzyl phthalate	16.6
Edenol 344 (Dehydag) = Dimethyl cyclohexyl phthalate	25.0
Silicone oil L 050 (Wacker) 10 % solution in MIBK	9.0
Methyl ethylketone	121.0
Methyl isobutyl ketone	152.0
Toluol	220.0
White spirits 100/140	86.4
Ethyl glycol acetat	<u>37.0</u>
	1000.0

Non volatile solid content: 25 %

Viscosity DIN 4 Cup 20 ° C 90 Seconds

407887

Alkyd Lacquer Formulation

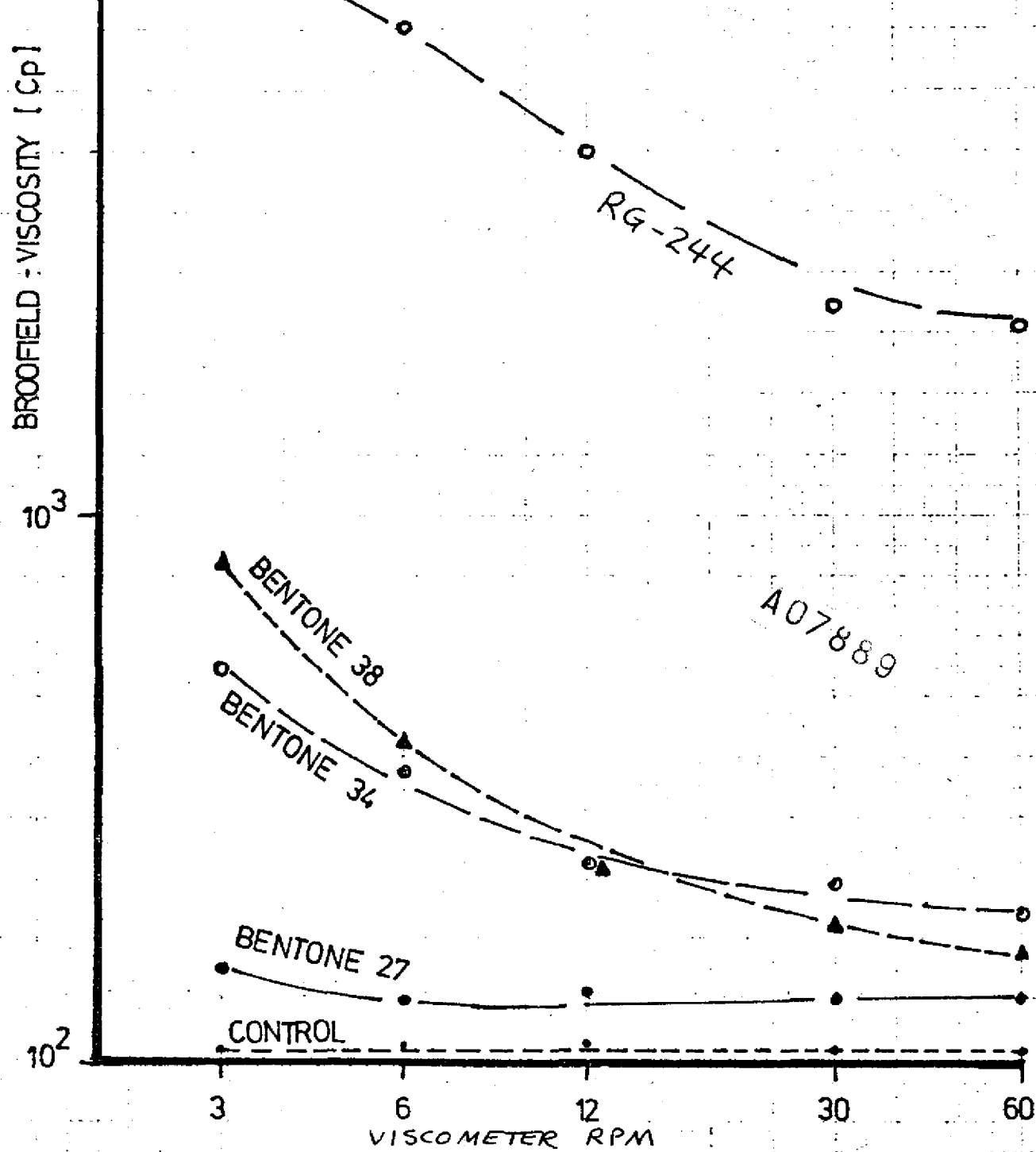
Polyurethane - Alkyd U 60

Alkydal U 60 (Bayer)		913.2
55 % on white spirit		
Turpentine		10.4
White Spirit K 30		39.6
Nuodex Lead Octoate	} Gebr. Borchers AG	8.3
24 % P 6		
Nuodex Cobalt Octoate		3.3
6 % Co		
Nuodex Calcium Octoate		12.6
4 % Ca		
Ascinin R (Bayer)		<u>12.6</u>
		1000.0

52 % Weight solids

Viscosity 170 Seconds DIN 4 Cup 20 ° C

407888



THICKENING AGENT AT 0.8% IN ALKYD RESIN

